

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS ☒ WATER SANDS LOCATION INSPECTED SUB REPORT/abd.

DATE FILED MAY 17, 1999

LAND FEE & PATENTED FEE STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN

DRILLING APPROVED. SEPTEMBER 2, 1999

SPUDDED IN.

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY API.

GOR.

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED:

FIELD: UNDESIGNATED

UNIT

COUNTY: CARBON

WELL NO SAMPINOS D-14

API NO. 43-007-30567

LOCATION 1695 FSL FT. FROM (N) (S) LINE. 2133 FEL

FT. FROM (E) (W) LINE. NW SE

1/4 - 1/4 SEC. 16

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

15S

10E

16

RIVER GAS CORPORATION

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN		5. Lease Designation and Serial Number: Patented	
1A. Type of Work: DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name: N/A	
		7. Unit Agreement Name: N/A	
B. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> Water Disposal <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name: Sampinos	
2. Name of Operator: River Gas Corporation		9. Well Number: D-14	
3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (435)637-8876		10. Field or Pool, or Wildcat: undesignated	
4. Location of Well (Footages) At Surface: 1695' FSL, 2133' FEL At Proposed Producing Zone: 516 858 E 41374 067 N		11. Qtr/Qtr, Section, Township, Range, Meridian: NW/4, SE/4 Section 16, T15S, R10E, SLB&M	
14. Distance in miles and direction from nearest town or post office: 5.7 miles southeast of Price, Utah		12. County: Carbon	13. State: UTAH
15. Distance to nearest property or lease line (feet): 507'	16. Number of acres in lease: 185.33 acres	17. Number of acres assigned to this well: n/a	
18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): none	19. Proposed Depth: 5750'	20. Rotary or cable tools: Rotary	
21. Elevations (show whether DF, RT, GR, etc.): 5564' GR		22. Approximate date work will start: June 1999	

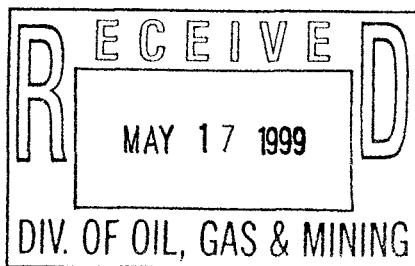
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	40'	see attachment "D"
17-1/2"	13-3/8"	48#/ft	300'	see attachment "D"
12-1/4"	9-5/8"	36&40#/ft	1475'	see attachment "D"
8-3/4"	7"	26.29&32#/ft	5750'	see attachment "D"

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.*

ORIGINAL

CONFIDENTIAL



24. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 5/13/99
(This space for state use only)

API Number Assigned: 43-007-30567

Approval:

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: 9/2/99

By: *[Signature]*

Township 15 South

Range 10 East

N89°55'46"E - 5287.3' (Measured)
East - 5281.5' (Recorded)

N00°01'40"E - 5315.57' (Measured)
North - 5280.0' (Recorded)

S00°23'31"E - 2657.7' (Measured)
North - 5280.0' (Recorded)
S00°08'11"E - 2658.2' (Measured)

16

Drill hole D-14
Elevation 5563.7'

2133.48'

1695.35'

SE Corner

East - 5284.8' (Recorded)
S89°55'56"W - 5314.3' (Measured)

LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



SCALE:

250' 0' 500' 1000'

Location

The Bearings Indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

Basis Of Elevation:

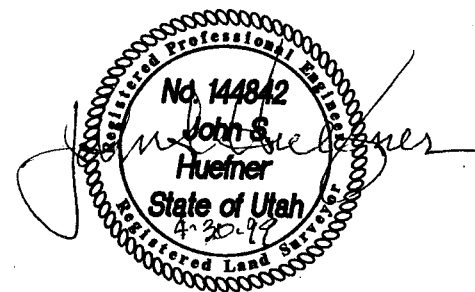
Basis of Elevation of 5612' as indicated in the SW Corner of Section 16, Township 15 South, Range 10 East, Salt Lake Base and Meridian, as shown on the Price Quadrangle 7.5 Minute Series Map.

Description of Well Point

Proposed Drill Hole located in the NW 1/4 SE 1/4 of Section 16; 1695.35' North and 2133.48' West from the SE Corner of Section 16, T15S, R10E, Salt Lake Base & Meridian.

Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



DRAWN BY:
P. BOYLEN

CHECKED BY:
J.S.H.

DATE:
4/28/99

SCALE:
1"=1000'

SHEET NO.
479

DRAWING NO.

A-1

SHEET 1 of 4

3266 South 125 West
Price, Utah 84501
(801) 637-8300
FAX (801) 637-2833



Services

River Gas Corporation
Well# D-14
Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah



ORIGINAL

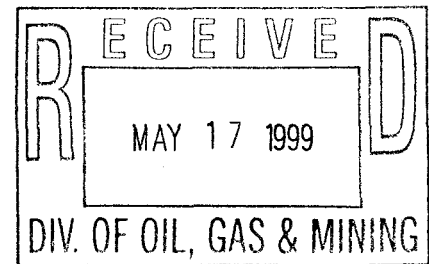
RIVER GAS CORPORATION

UTAH OPERATIONS
1305 South 100 East
Price, Utah 84501
Bus. (435) 637-8876
FAX (435) 637-8924

CONFIDENTIAL

May 13, 1999

Mr. John Baza
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
SLC, Utah 84114-5801



RE: Application for Permit to Drill-
Disposal Well Sampinos D-14, NW/4 SE/4, of Sect.16
T15S, R10E, SLB & M, Carbon County, Utah

Dear Mr. Baza:

Enclosed is the original of the *Application for Permit to Drill* (APD). Included with the APD is the following information:

- Exhibit "A"- Survey plat of the proposed well site;
- Exhibit "B" - Proposed Location Map with Pipeline, Power, and Road Access;
- Exhibit "C" - Evidence of Bond;
- Exhibit "D" - Drilling Information;
- Exhibit "E" - Proposed Drilling Equipment Location Layout;
- Exhibit "F" - Typical Road Cross-section;
- Exhibit "G" - BOP Diagram;
- Exhibit "H"- Multipoint Surface Use Plan;

Please accept this letter as River Gas Corporation's written request for confidential treatment of all information contained in and pertaining to this permit application, if said information is eligible for such consideration.

Thank you very much for your timely consideration of this application. Please feel free to contact me if you have any questions.

Sincerely,

Don S. Hamilton

Don S. Hamilton
Permit Specialist

cc: Mr. Eric Jones, BLM, Moab, Utah
Mr. Chuck Snure, Texaco
Mr. Joe Coughlin, Dominion Resources
Mrs. Tammie Butts, River Gas Corporation
Mr. Gilbert Hunt, DOGM
Dave Levanger, Carbon County, Utah
RGC Well File

EXHIBIT "D"
DRILLING INFORMATION

Attached to Form 3
River Gas Corp.
Sampinos D-14
NW/4 SE/4, Sec.16, T15S, R10E, SLB & M
1695' FSL, 2133' FEL
Carbon County, Utah

(R615-3-4 Permitting of Wells to be Drilled, Deepened or Plugged Back

2.1 Telephone numbers for additional information:

Don S. Hamilton	(435) 637-8876 Office
Permit Specialist	(435) 636-5671 Mobile
 Jerry Dietz	 (435) 637-8876 Office
Production Superintendent	(435) 636-5114 Mobile
 Lenny Grimsley	 (435) 637-8876 Office
Construction Specialist	(435) 636-5259 Mobile
 Mitch Mitchell	 (435) 637-8876 Office
Stimulation Specialist	(435) 636-5258 Mobile

- 2.2 Lease: Patented
- 2.3 This disposal well will be drilled approximately 5.7 miles southeast of Price, Utah.
- 2.4 Survey Plat: See Exhibit "A"
- 2.5 Water will be purchased from Price River Water Improvement District, PRWID (a local municipal water source).

2.6 Drilling Program

- 2.6.1 Following is a tabulation of the geologic units and the respective depths where they are expected to be penetrated in the well.

<u>Formation/Unit</u>	<u>Estimated Depth (top)</u>
Upper Mancos Shale	Surface
Ferron Sandstone	810'
Tununk Shale	1060'
Dakota	1426.5'
Cedar Mtn	1465.5'
Morrison	2264.5'
Summerville	2771.5'
Curtis	3195.5'
Entrada	3348'
Carmel	4024.5'
Navajo	4684.5'
Kayenta	5047'
Wingate	5140.5'
Chinle	5512.5'

- 2.6.2 This well will be utilized strictly for the injection of produced waters from RGC's coalbed methane wells. Zones that have shown to be gas and water-bearing are the coals and sandstones of the Ferron Formation. The Navajo Sandstone is expected to be water-bearing, and potentially containing CO₂.
- 2.6.3 A rotating head with a diverter system will be used to drill the surface hole. For the remainder of the drilling (surface shoe to TD), a double gate 5000 psi BOPE will be used with a rotating head. This equipment will be tested to 70% of the minimum interval yield pressure. All tests will be recorded in a Driller's Report Book. Physical operation of the BOPE's will be checked on each trip. See Attachment "G" for the schematic of the BOPE.

2.6.4 Casing Program-

Conductor- 20" Structural, set @ $\pm 40'$, 26" hole

Cement ready mix ± 8 cu.yds.

Surface- 13 3/8" H-40, 48#/ft, ST&C, set @ $\pm 300'$, 17 1/2" hole.

300' X .6946 cu.ft/ft = 208.38 cu.ft

excess 60%; 208.38 X 1.60 = 333.408 cu.ft

Cement: 290 sks G+2% S-1+1/4 #/sk D-29

Yield: 1.15 cu. ft/sk.

Wt.-15.8#/gal

Total cu. ft = 333.5 cu. ft.

Excess 60% -- cement to surface

Intermediate- 9 5/8" K-55, 36 & 40 #/ft, LT&C, set @ $\pm 1475'$, 12 1/4" hole.

1475' X .3132 cu.ft/ft = 461.97 cu.ft/ft

excess 30%; 461.97 X 1.30 = 600.561

Cement: 268 sks 50/50 Poz +6% D-20 1/4#/sk D-29

Yield: 1.71

Wt: 12.4#/gal

Total cu. ft. 456.811 cu.ft

Cement: 125 sks G+2% S-1 1/4 #/sk D-29

Yield: 1.15

Wt: 15.8#/gal

Total cu.ft 143.75 cu.ft.

Excess 30% -- cement to surface

Production- 7" L-80 or N-20, 26#/ft, 29#/ft, and 32#/ft, set @ $\pm 5600'$, 8 3/4" hole.

Possible 2 stage cement job -- cement stage tool @ $\pm 3000'$.

First stage: 5600' - 3000 = 2600'

2600' X .1503 cu.ft/ft = 390.78 cu.ft

excess 15%; 390.78 X 1.15 = 449.347 cu.ft

75 sks 50/50 Poz + 8% D-20 + 1/4#/sk + 10% D-29

Yield: 1.91 cu ft/sk

Wt: 12.2 #/gal

Total cu. ft = 143.25 cu. ft.

125 sks G + 1% D-65 + .5% B-14

Yield: 1.15 cu.ft/sk

Wt: 15.8 #/gal

Total cu.ft = 143.75

Handwritten calculations:
75(1.91) + 125(1.15) + 101(1.11)
301
= 1.49 #/sk

101 sks 10-1 RFC
 Yield: 1.61 cu. ft/sk
 Wt: 14.2 #/gal
 Total cu. ft. = 162.61
 Excess 15% -- cement to surface

Second Stage: 3000' X 1.503 cu.ft/ft = 450.90 cu.ft

$$450.90 \times 1.25 = 563.625$$

175 sks 50/50 Poz + 8% D-20

Yield: 1.91 cu.ft/sk.

Wt: 12.2 #/gal

Total cu. ft. = 334.25 cu.ft

Handwritten calculations:
 $175 (1.91) = 334.25$
 $250 (1.15) = 287.5$
 $1.46 \frac{16^3}{5^2}$

250 sks G + 1% D-65

Yield: 1.15 cu. ft/sk

Wt: 15.8 #/gal

Total cu. ft. = 230 cu.ft

Excess 25% -- cement to surface

This is a recommended cement program based on ideal hole conditions. Actual hole conditions will dictate the correct cement blend and volumes to run.

2.6.5 Mud Program:

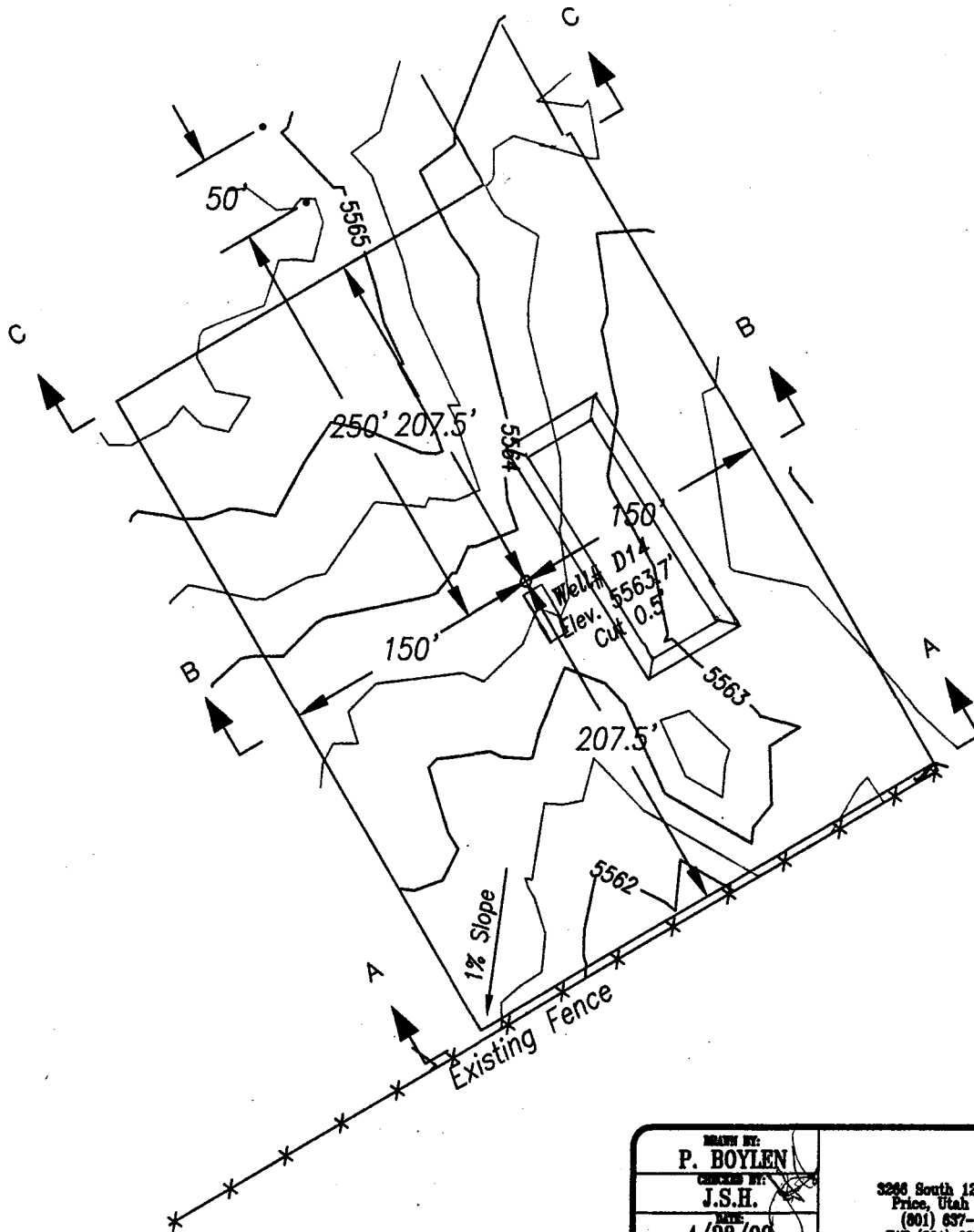
<u>Depth</u>	<u>Hole Size</u>	<u>Program</u>
0 - 320'	17 1/2" hole	
320' - 2500'	12 1/4" hole	Drill with air. 400 psi @ 1500-1800 cfs.
2500' - 5750'	8-3/4" hole	Drill with air 400 psi @ 1500-1800 cfs.

If necessary to mud-up, a fresh water Bentonite type system will be used.

2.6.6 Logging and Testing Program:

<u>Depth</u>	
0-300'	Gamma Ray
300-TD	GR,DIL, LDT, CNL, DSI SONIC

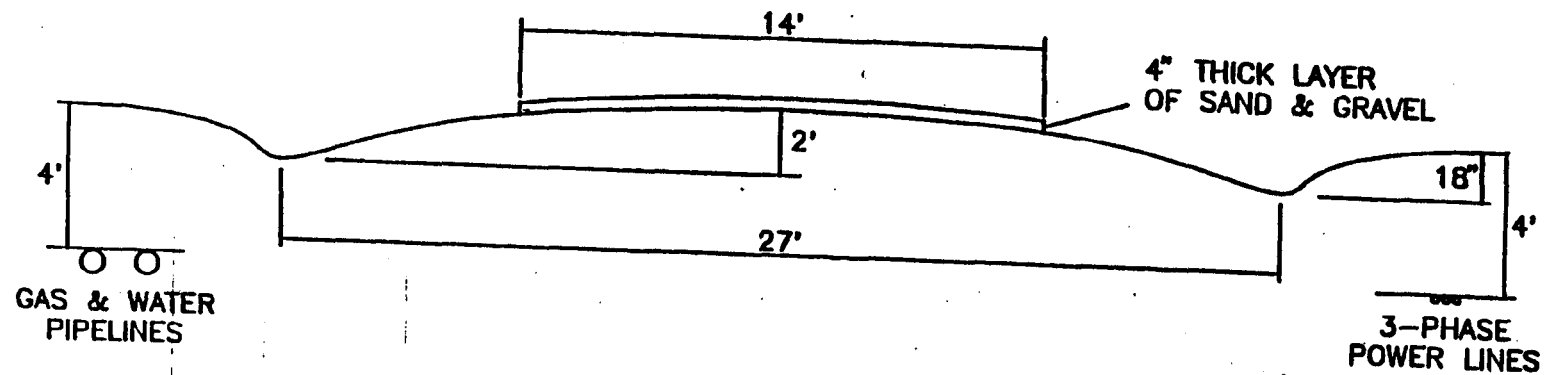
2.6.7 We expect a bottom hole pressure of 3000 psi. No hazards are expected.



Elevation Ungraded Ground at Location Stake = 5563.7'
 Elevation Graded Ground at Location Stake = 5563.2'

DRAWN BY: P. BOYLEN		 Castle Valley 3246 South 125 West Price, Utah 84501 (801) 637-8300 FAX (801) 637-2633
CHECKED BY: J.S.H.		
DATE: 4/28/99		
SCALE: 1"=100'		
JOB NO. 478		Services River Gas Corporation Location Layout Section 16, T16S, R10E, S.L.B.&M. Well# D-14
DRAWING NO. A-2		
SHEET 2 OF 4		

RIVER GAS CORPORATION



TYPICAL ROAD CROSS-SECTION

NOT TO SCALE

● DIVERTER HEAD ●

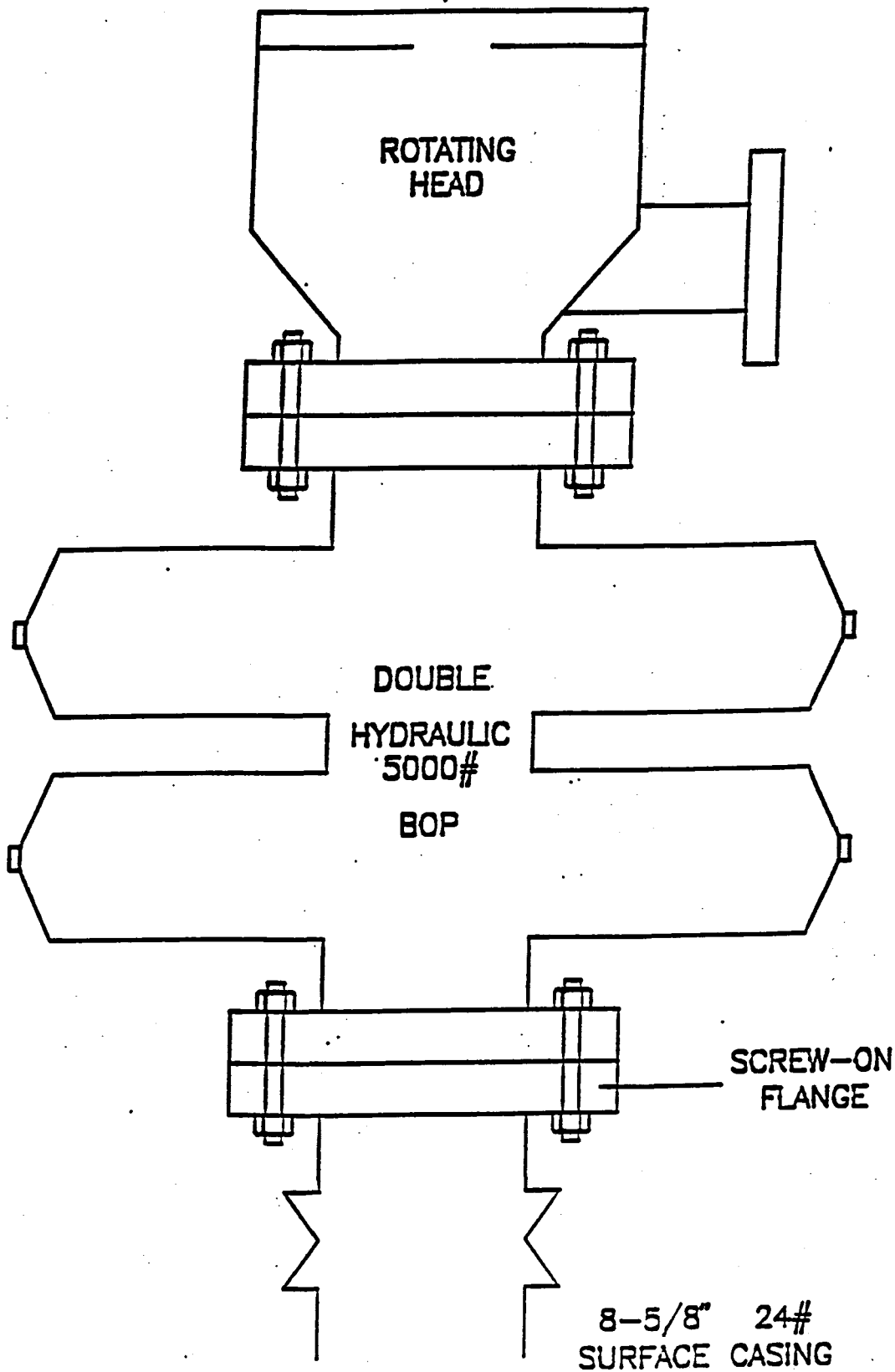


EXHIBIT "H"
MULTIPOINT SURFACE USE PLAN

Attached to Form 3
River Gas Corp.
Sampinos D-14
NW/4 SE/4, Sec.16, T15S, R10E, SLB & M
1695' FSL, 2133' FEL
Carbon County, Utah

1. Existing Roads

- a. Existing roads will be maintained in the same or better condition. See Exhibit "B".

2. Planned Access

- a. Maximum Width: 14' travel surface with 27' base
- b. Maximum grade: 12%
- c. Turnouts: None
- d. Drainage design: 10 culverts may be required. Water will be diverted around the access road as necessary.
- e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.
- f. Approximately 6000' of new access is required (See Exhibit "B").
- g. Miller Creek will be crossed with access, pipelines and powerlines. A low-water crossing design has been completed and submitted for permit approval. A permit will be received from the state engineers office prior to any drainage disturbing activities.

3. Location of Existing Wells

- a. See Exhibit "B". There are no proposed and two existing wells within a one mile radius of the proposed location.
- b. Future production wells are planned for this area in the year 2001

4. Location of Existing and/or Proposed Facilities

- a. If the well is a producer, installation of production facilities will be as shown on Exhibit "H". Buried powerlines will run along the access on the east and north, gathering lines on the south or west.
- b. Rehabilitation of all pad areas not used for production facilities will be made in accordance with landowner stipulations.

5. Location and Type of Water Supply

- a. Water to be used for drilling will be purchased from the Price River Water Improvement District (a local source of municipal water) (tel. 435-637-6350).
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

6. Source of Construction Materials

- a. Any necessary construction materials needed will be obtained locally and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

7. Methods for handling waste disposal

- a. A large (150' X 60' X 12' deep) reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit. The pit will be lined due to its proximity to nearby surface waters and has been situated to be as far from surface waters as possible. Additional precautions may be deemed necessary by the DOGM representative during the pre-site inspection. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit back-filled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.

- c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

8. Ancillary Facilities

- a. We anticipate no need for ancillary facilities with the exception of several trailers to be located on the drill site.

9. Wellsite Layout

- a. Available topsoil will be removed from the location and stockpiled. Location of mud tanks, reserve and berm pits, and soil stockpiles will be located as shown on the attachments.
- b. A blooie pit will be located 150' diagonally from the drill hole. A line will be placed on the surface from the center hole to the pit. The pit will be lined, and will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on Exhibit "B".
- d. Natural runoff will be diverted around the well pad.

10. Plans for Restoration of Surface

- a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.

11. Surface Ownership:

- a. The wellsite will be constructed on lands owned by Sampinos. The access, pipe, and power corridor will be constructed on LDS Church and Sampinos in which surface use is currently being negotiated. The operator shall contact the landowner representatives and the Division of Oil, Gas and mining 48 hours prior to beginning construction activities.

John + Toulia Sampinos
Owners Representative Nick Sampinos (435) 637-8100
190 N. Carbon Ave
Price, UT 84501

12. Other Information:

- a. The primary surface use is grazing. The nearest dwelling is approximately 2,500 feet northwest
- b. Nearest live water is Miller Creek, 300' south.
- c. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed and piled downhill from the topsoil stockpile location.
- d. The backslope and foreslope will be constructed no steeper than 4:1.
- e. All equipment and vehicles will be confined to the access road and well pad.
- f. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be on the wellsite during construction and drilling operations

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Division of Oil, Gas & Mining.

13. Company Representative

Don S. Hamilton
Permit Specialist
River Gas Corporation
1305 So. 100 E.
Price, Utah 84501
(435) 637-8876
(435) 636-5671

Mail Approved A.P.D. To:

Company Representative

Excavation Contractor

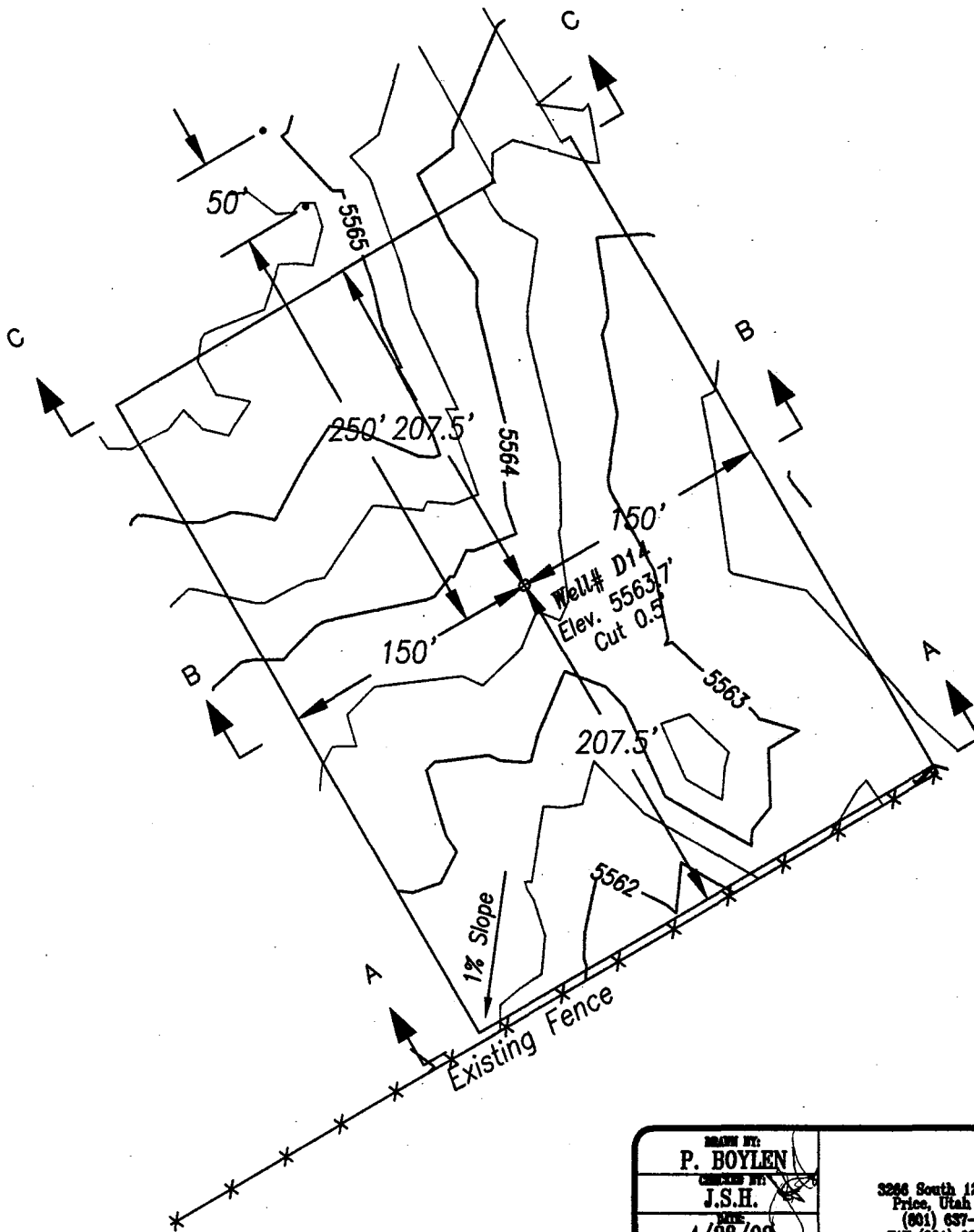
Nelco Contractors Inc.
Larry Jensen
(435) 637-3495
(435) 636-5268

14. Certification

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by River Gas Corp. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

5-13-99
Date

Don S. Hamilton
Don S. Hamilton
Permit Specialist
River Gas Corporation

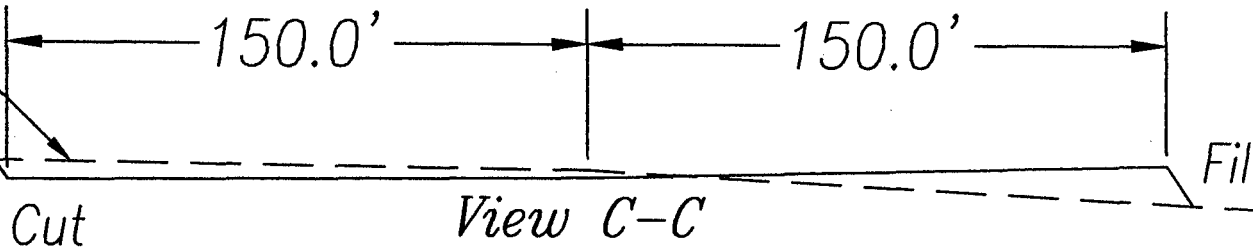


Elevation Ungraded Ground at Location Stake = 5563.7'
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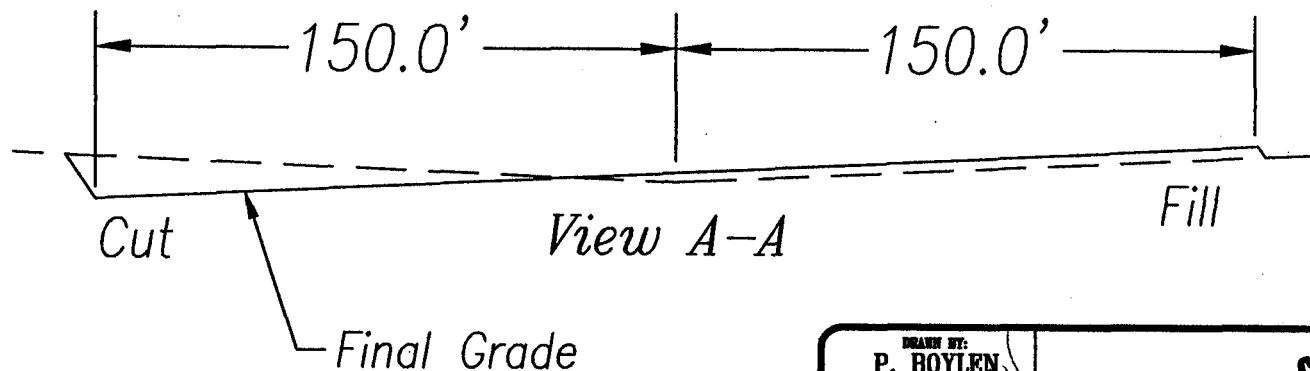
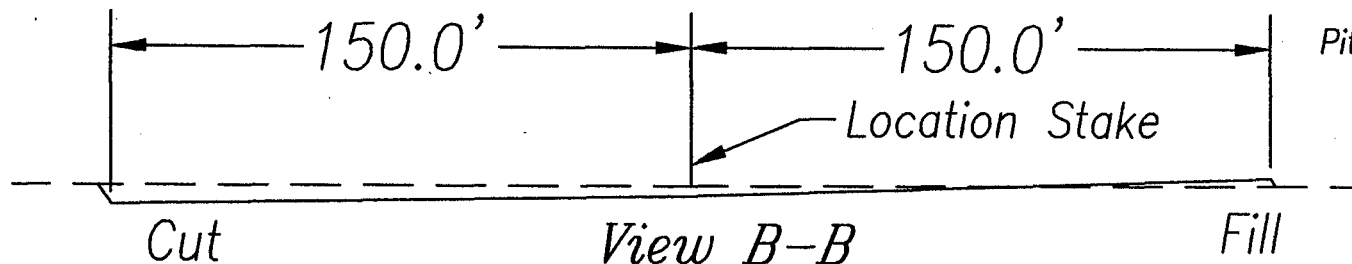
DRAWN BY: P. BOYLEN	 Castle Valley 3296 South 125 West Price, Utah 84501 (801) 637-9300 FAX (801) 637-2533
CHECKED BY: J.S.H.	
DATE: 4/28/99	
SCALE: 1"=100'	
SHEET NO. 478	Sources
DRAWING NO. A-2	River Gas Corporation Location Layout Section 16, T16S, R10E, S.L.B.&M. Well # D-14
SHEET 2 OF 4	

Preconstruction
Grade

1"=10'
X-Section
Scale
1"=50'




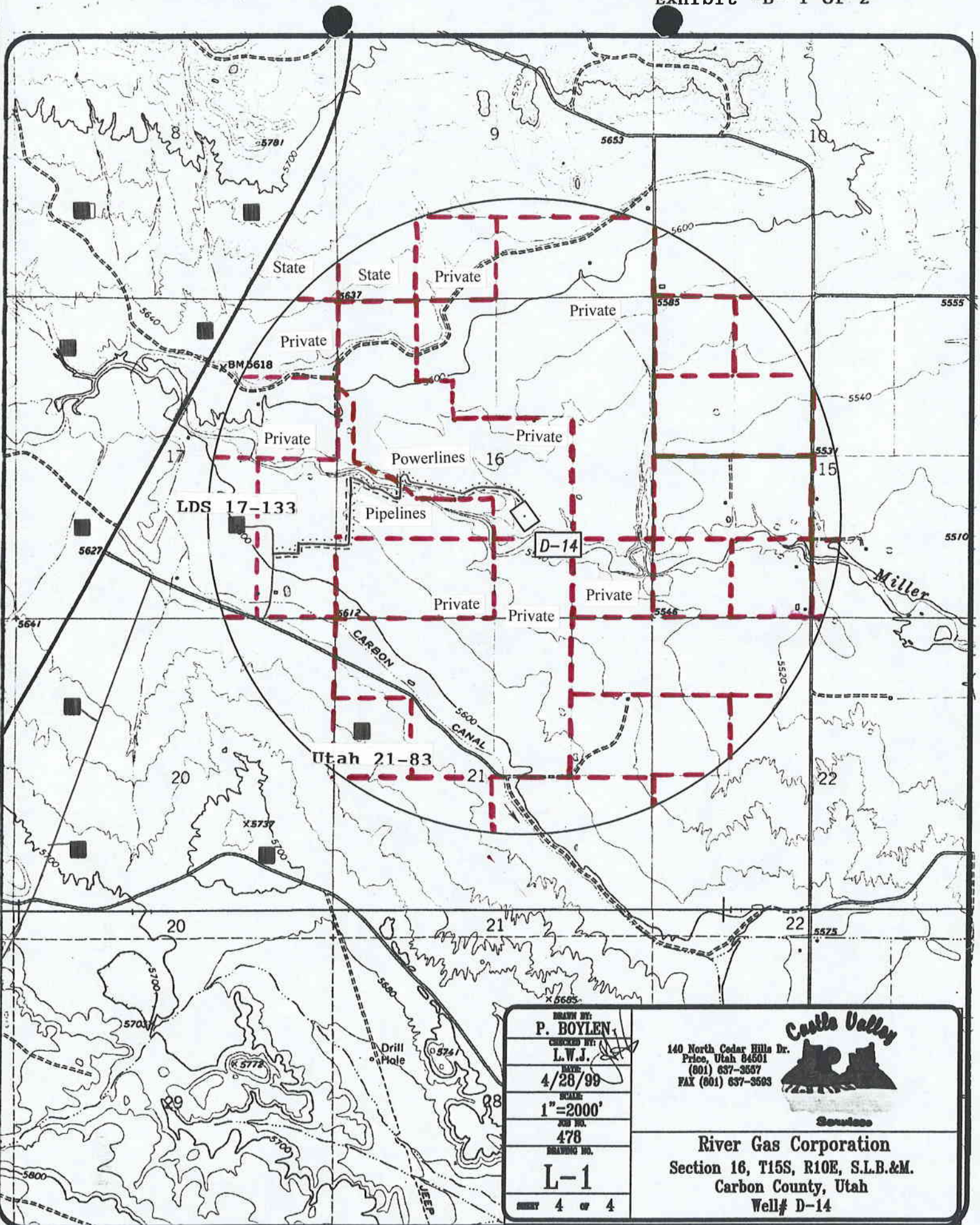
Slope = 1 1/2 : 1
(Except Pit)
Pit Slope = 1 : 1



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1265.0 Cu. Yds.
Remaining Location	= 1,783.3 Cu. Yds.
TOTAL CUT	= 3,048.3 Cu. Yds.
TOTAL FILL	= 778.1 Cu. Yds.

DRAWN BY: P. BOYLEN CHECKED BY: J.S.H. DATE: 4/29/99 SCALE: As Shown JOB NO. 478 DRAWING NO. C-1 SHEET 3 OF 4	 3266 South 125 West Price, Utah 84501 (801) 637-9300 FAX (801) 637-2833 Services River Gas Corporation Typical Cross Sections Section 16, T15S, R10E, S.L.B&M. Well# D-14
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DRAWN BY:
P. BOYLEN

CHECKED BY:
L.W.J.

DATE:
4/28/99

SCALE:
1"=2000'

SHEET NO.
478

DRAWING NO.

L-1

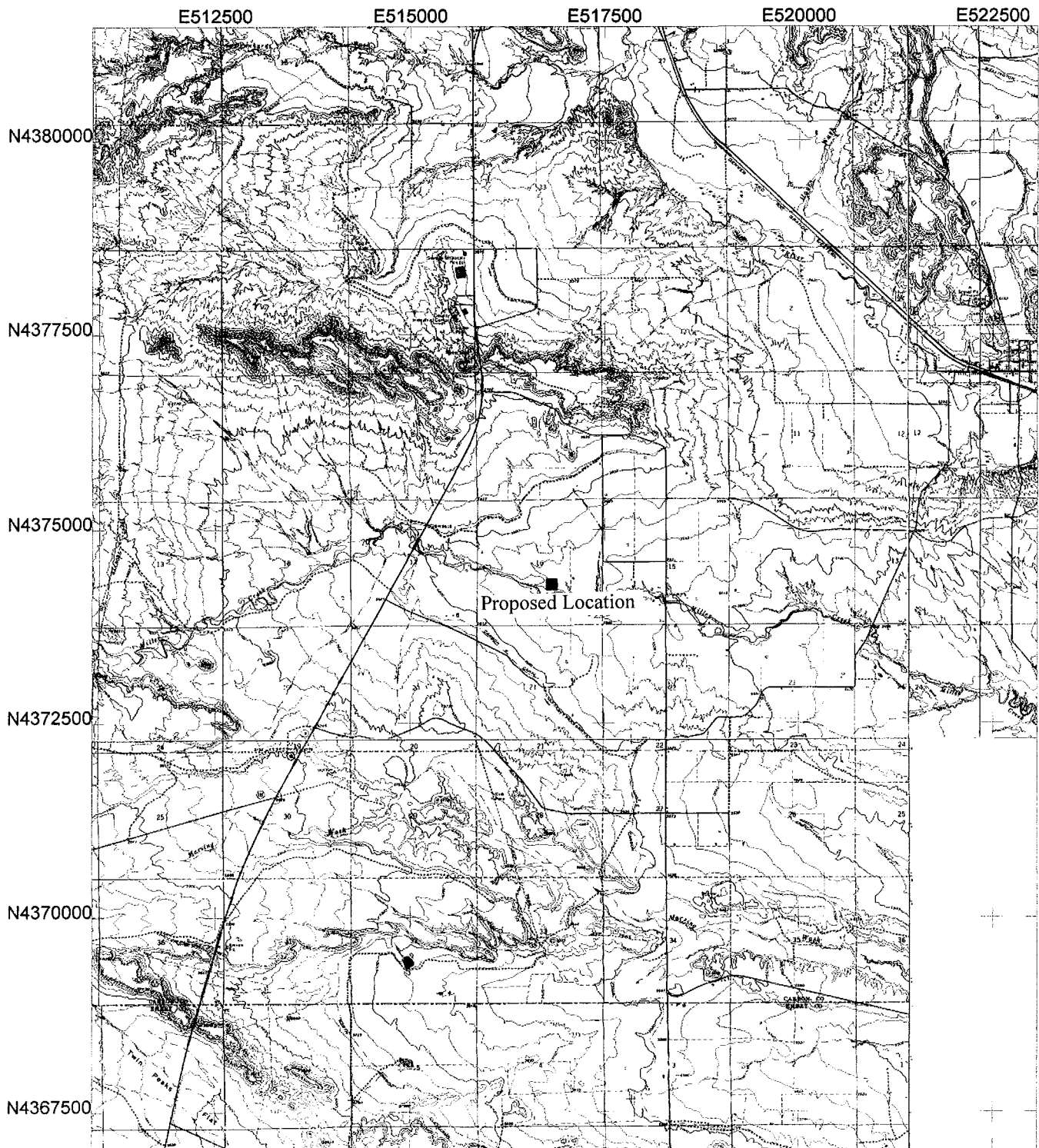
SHEET **4** OF **4**

140 North Cedar Hills Dr.
Price, Utah 84501
(801) 637-3537
FAX (801) 637-3593



Source:

River Gas Corporation
Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah
Well# D-14



Sampinos D-14

Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:75000
0 8000
Feet

Multiple Files
5/6/1999
Pathfinder Office™
 Trimble

TELEX: 6827189
Cable: AMSOUBKBM
SWIFT: AMSB US 44

Mobile:
TELEX: 6821116
Cable: AMSOMBL
SWIFT: AMSB US 44

International Services

AMSOUTH BANK OF ALABAMA
1900 FIFTH AVENUE NORTH
BIRMINGHAM, ALABAMA 35203 USA
OUR REFERENCE NUMBER: 9308586

AMENDMENT NUMBER: 002
TO LETTER OF CREDIT NUMBER: 9308586
DATE: NOVEMBER 13, 1993

BENEFICIARY:
STATE OF UTAH
DEPT. OF NATURAL RESOURCES
DIV. OF OIL, GAS AND MINING
355 WEST TEMPLE 3 TRIAD CENTER
SUITE 350
SALT LAKE CITY, UTAH 84180-1203

AT THE REQUEST OF RIVER GAS CORPORATION 3500 WATERMELON ROAD
SUITE 204 NORTHPORT, ALABAMA 35476 AND FOR THE ACCOUNT OF SAME

WE HEREBY AMEND OUR LETTER OF CREDIT NUMBER 9308586 DATED
DECEMBER 3, 1993 OPENED IN YOUR FAVOR AS FOLLOWS:

ACCOUNT PARTY'S ADDRESS IS CHANGED
TO: 511 ENERGY CENTER BLVD
NORTHPORT, ALABAMA 35476

*REFERENCES HEREIN TO AMSOUTH BANK N.A. SHALL BE DEEMED TO REFER
TO AMSOUTH BANK OF ALABAMA.**

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.
THIS AMENDMENT BECOMES AN INTEGRAL PART OF THE ORIGINAL LETTER OF
CREDIT AND IS TO BE ATTACHED THERETO.


AUTHORIZED SIGNATURE



RIVER GAS CORPORATION

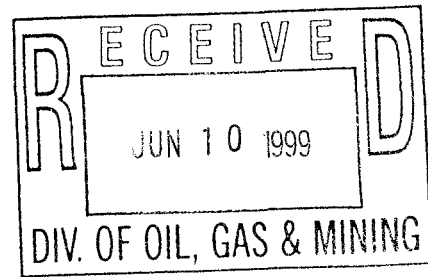
UTAH OPERATIONS

1305 South 100 East

Price, Utah 84501

Bus. (435) 637-8876

FAX (435) 637-8924



ORIGINAL

CONFIDENTIAL

June 3, 1999

Mr. John Baza
Associate Director
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

RE: Exception location – Sampinos D-14, Section 16, T15S, R10E, SLB&M
Carbon County, Utah

Dear Mr. Baza:

Please accept this letter as River Gas Corporation's (RGC's) request that this proposed well be approved as an exception location in accordance with Utah Administrative Code § R649-3-3 for topographical reasons. This proposed well site does not conform with the general state spacing rules that affects the subject SE/4.

RGC's contractor, GeoScout Land and Title Company, will send your office an affidavit describing the owners within a 460 foot radius of the well. Thank you for your timely consideration of this request, please feel free to contact me if you have any questions or need additional information.

Sincerely yours,

Don S. Hamilton

Don S. Hamilton
Permitting Specialist

cc: Tammie Butts, RGC
Sally Sullivan, Geoscout Land and Title Company
Randy Allen, RGC
Joey Stephenson, RGC
RGC well file

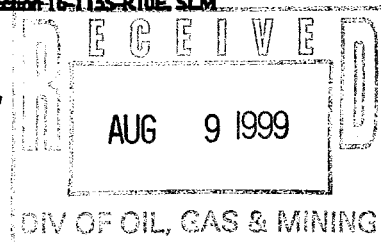
STATE OF UTAH
COUNTY OF CARBON

§
§
§

D-14 Disposal Well Access/Pipelines/Power Lines

Section 16-T155-R10E-SLM

SURFACE LAND USE AGREEMENT



KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the undersigned John N. Sampinos and Toulia Sampinos, husband and wife, whose address is 950 North 300 East, Price, Utah 84501 (hereinafter referred to as **GRANTOR**, whether one or more), owns the surface of the following described property in Carbon County, Utah, to-wit:

See Exhibits "A", "B" and "C" Attached

and River Gas Corporation, an Alabama corporation authorized to conduct business in the state of Utah, whose address is 511 Energy Center Boulevard, Northport, Alabama 35473 (hereinafter referred to as **GRANTEE**), owns leases covering oil, gas and mineral rights in, under and upon said property; and

WHEREAS, Grantee desires to build access roads, pipelines and appurtenances thereto, and power lines for the drilling of Coalbed Degasification wells on property situated west of Grantor's property described herein.

NOW THEREFORE, for and in consideration of the sum of ten dollars (\$10.00) and other valuable considerations, the receipt and sufficiency of which is hereby acknowledged, Grantor does hereby grant unto Grantee, its successors and assigns, the easement and right to use that portion of the herein above described property as may be necessary to conduct its drilling and production operations on said property, including the right to construct, entrench, maintain, operate, replace, remove, protect, or abandon in place a pipeline or pipelines for water or gas with appurtenances thereto, including, but not limited to, valves, metering equipment, and cathodic equipment (all pipelines shall be buried below normal plow depth); a power line or power lines (pipelines, appurtenances, valves, metering equipment, cathodic equipment, access road and power lines being sometimes collectively called the "facilities") over, under and through the hereinafter described land as described in the attached Exhibits "A" and "B".

Grantor acknowledges the receipt and sufficiency of the above described consideration as payment for all damages to Grantor's trees, timber, growing crops, and other vegetation being cultivated on said land by the undersigned or their respective lessees, tenants or assigns caused by the construction, maintenance, protection, repair, placement or removal of the facilities as described in attached exhibits and agrees that the payment and acceptance of the consideration set forth above is in full and complete payment, settlement, compromise and satisfaction of any and all or the above-mentioned losses, liabilities, claims, damages, demands and causes of action for any and all injuries and damage to the surface of the land hereinbelow described and to any appurtenances or improvements thereon, and for any and all claims including but not limited to loss of potential rental income, damages to and/or loss of livestock and wildlife; arising directly or indirectly in connection with the operations thereon by Grantee, its employees, agents, contractors, or subcontractors in connection with the above-mentioned operations of Grantee.

Grantee shall have the free right of ingress and egress to, over, upon, through and across said right-of-way and easement for any and all purposes that may be necessary or incidental to the maintenance of the

right-of-way and easement, with the right to use existing roads which enter Grantor's property for the purpose of constructing, inspecting, repairing and maintaining the facilities and the removal or replacement of same at will, either in whole or in part, and the replacement of said pipeline or pipelines with either like or different size pipe. During temporary periods, Grantee may use such portions of the property along and adjacent to said right-of-way as may be necessary in connection with construction, maintenance, repair, removal or replacement of the facilities and if such use causes any damages to Grantor's lands outside of the above described right-of-way, Grantee shall pay Grantor for such damages.

Grantor reserves the right to the use and enjoyment of said property except for the purposes herein granted, but such use shall not hinder, conflict or interfere with Grantee's surface or subsurface rights hereunder or disturb its facilities. No road, reservoir, excavation, obstruction or structure shall be constructed, created or maintained on, over, along or within the lands covered by this right-of-way without Grantee's prior written consent.

If Grantee desires to remove any trees adjacent to said right-of-way at a later date which may be hazardous to the maintenance and use of the facilities on the right-of-way, Grantee shall first obtain approval from Grantor in writing, Grantor's approval not to be unreasonably withheld, and after receipt of such approval, may proceed to cut and remove such trees subject to payment of additional timber damages, if any are determined.

The undersigned hereby covenant and warrant that they are the surface owners of the above described land, and have the right to enter into this agreement.

FOR THE SAME CONSIDERATION RECITED ABOVE, Grantor and Grantee do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or, their agents, contractors, licensees, permittees, successors and assigns own activities on or use of the subject property. However, each parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of it, or its predecessors, agents, contractors, licensees, permittees, successors, and assigns, and shall not include any acts and/or omissions of the other party, its agents, contractors, licensees, permittees, successors or assigns. Grantee shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

TO HAVE AND TO HOLD the above described rights and easements, together with all rights necessary to operate and maintain the facilities over the right-of-way hereby granted unto the said Grantee, its successors and assigns, until such time as the right-of-way and easement is abandoned under the terms stipulated herein. The Grantee may assign the rights and easements herein granted, either in whole or in part, subject to the terms of this grant, and such rights and easements shall be covenants running with the land and be binding upon Grantor, Grantor's heirs, legal representatives and successors in title. Upon abandonment, at the request of the Grantor, Grantee shall execute and deliver to Grantor a document in recordable form evidencing said abandonment.

The making, execution and delivery of this document by Grantor has been induced by no representations, statements, warranties, or other agreements other than those herein expressed. This agreement embodies the entire understanding of the parties, and this instrument may be amended or modified only by subsequent written agreement of the parties.

Exhibit "A"**Sampinos - Surface Land Use Agreement**

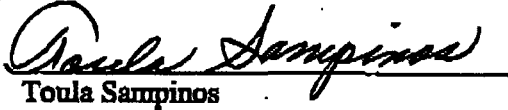
Attached to and made a part of that certain Surface Land Use Agreement effective the 23rd day of July, 1999, by and between John N. Sampinos and Toula Sampinos, husband and wife, as Grantor and River Gas Corporation as Grantee.

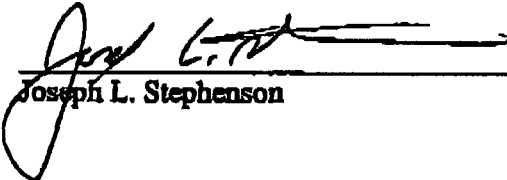
(A) A pipeline and power line right-of-way approximately forty foot (40') wide by approximately three thousand one hundred foot (3,100') long (188 rods) (2.85 acres) more or less, meandering North to South through the W/2 of Section 16-T15S-R10E, SLM, as shown on Exhibit "B" attached hereto.

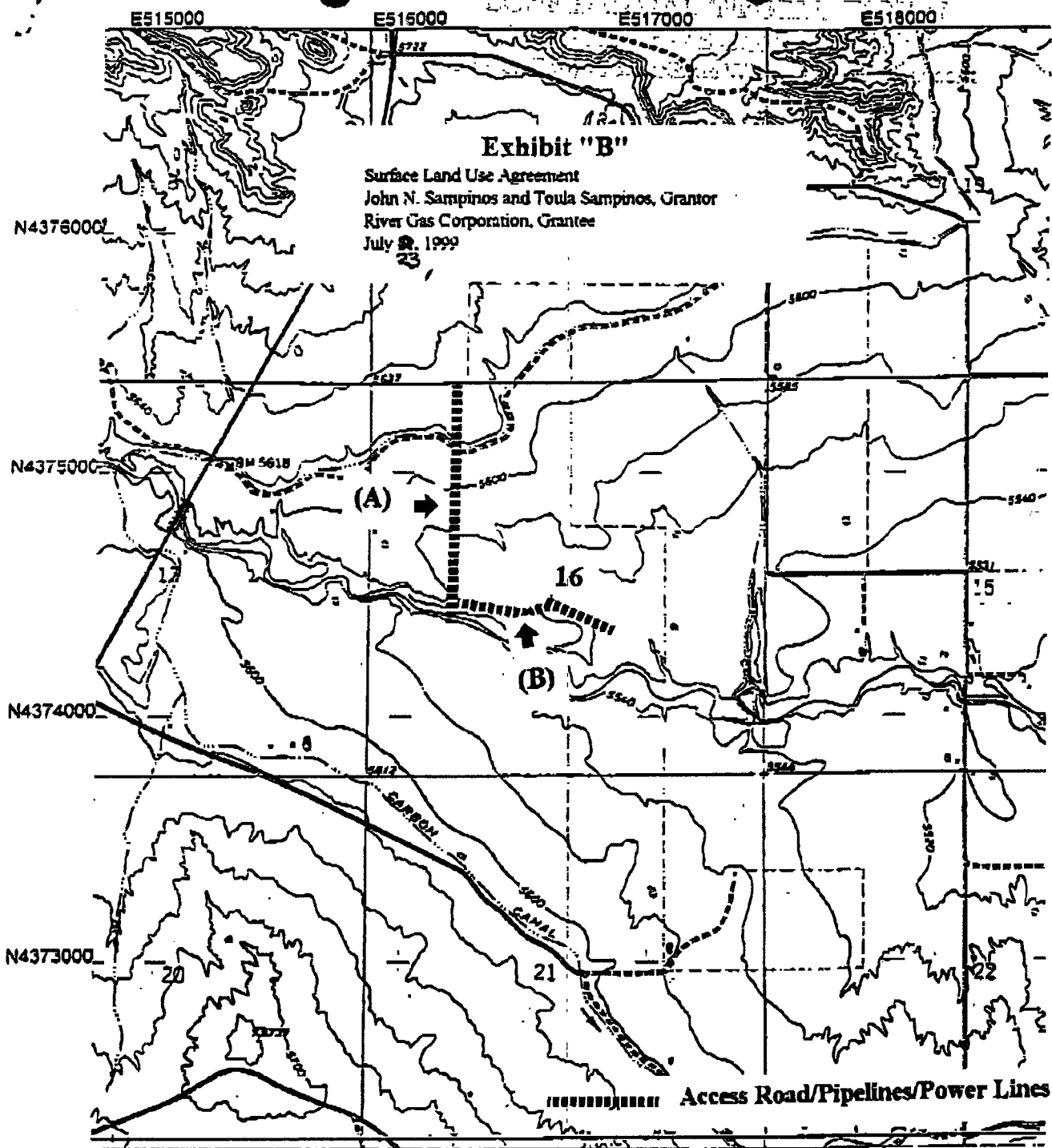
(B) A road with pipeline and power line right-of-way approximately forty foot (40') wide by approximately two thousand five hundred foot (2,500') long (152 rods) (2.30 acres) more or less, meandering West to East through the south center portion of Section 16-T15S-R10E, SLM, as shown on Exhibit "B" attached hereto.

SIGNED FOR IDENTIFICATION


John N. Sampinos


Toula Sampinos


Joseph L. Stephenson



Sampinos - Section 16, T15S, R10E, SLB&M

Carbon County, Utah

Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:24000



6/10/1999
Pathfinder Office™
Trimble

EXHIBIT "C"
SPECIAL STIPULATIONS
Page 1 of 2

Attached to and made a part of that certain Surface Land Use Agreement effective the 23rd day of July, 1999, by and between John N. Sampinos and Toulia Sampinos, husband and wife, as Grantor and River Gas Corporation as Grantee.

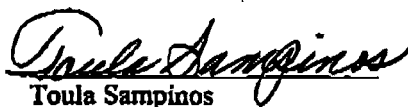
1. Each pipeline (and power line if installed underground) installed hereunder shall be constructed not less than thirty-six (36) inches below the surface elevation of said land at the time of construction, provided that subsoil or subsurface conditions will permit a pipeline (or power line) to be constructed at or below this depth using normal construction methods. In the event that rock or other subsoil or subsurface conditions, including other previously laid pipe or other lines, do not permit a pipeline (or power line) to be constructed at or below this depth by normal construction methods, each pipeline (or power line) constructed hereunder shall be constructed at the lowest depth above the thirty-six (36) inch minimum depth specified above that normal construction methods will permit. It is agreed and understood that there is no obligation on the part of Grantee to bury power lines. Grantor, its successors or assigns, shall give reasonable notice to Grantee before crossing a pipeline or power line at locations other than existing roadways so that Grantee may instruct Grantor on what measures must be taken by Grantor to protect such facilities from damage.
2. Grantee hereby agrees to use a mixture of Siberian Wheat Grass and Nordan Crested Wheat Grass at a rate of 10-12 pounds per acre using the drill method for disturbed surface restoration. Also to be included in said grass mixture is Ledak Alfalfa at the rate of 1/2 pound per acre using the drill method for disturbed restoration. Re-seeding will be done in the fall of 2000. If disturbance is done in following years with reclamation work not done until after April 1 of such a future year, re-seeding will be done in the fall of the year of said disturbance.
3. In the event efforts to re-establish vegetation of a disturbed area with the seed mixture specified in item 2 above are not successful, Grantee or Grantor shall request the office of Natural Resources Conservation Services to inspect the disturbed area and agrees to a one-time re-seeding and reclamation effort in accordance with the recommendations of the office of Natural Resources Conservation Services. If that second effort to re-establish vegetative cover fails, there shall be no further obligation on the part of Grantee to conduct further work on such area.
4. It is hereby understood and agreed that by the execution of this agreement, Grantee does not serve to waive, forfeit, or limit any rights it may have by virtue of the mineral lease(s) active on the subject properties and shall not be deemed as a limitation on additional surface use if further mineral development is contemplated. If the need for such additional surface use arises, Grantor and Grantee agree to negotiate in good faith to reach an agreement substantially similar in form to this agreement for such use.
5. Grantee shall have the right at any time; but not the necessity, to remove or abandon in place all machinery, fixtures power lines and pipelines placed on or in said land, including the right to draw and remove casing. In no event shall Grantor be due any further damages for Grantee's efforts to restore the surface of the subject lands.
6. A Memorandum of this Agreement shall be executed by Grantee and Grantor making reference to this agreement for recording purposes.
7. All roads shall be constructed with appropriate ditches and drain culverts to allow proper drainage off of said roads and also to prevent water from backing up along said roads, all at the sole expense of Grantee.

Exhibit "C"
Page 2 of 2

8. It is specifically understood that, notwithstanding provisions herein to the contrary, Grantee shall remain liable to Grantor for any and all losses, injuries and damages to the surface of the lands described herein and to any appurtenances or improvements thereon caused by or arising out of the gross negligence or willful misconduct of the Grantee, its employees, agents, contractors, or subcontractors.
9. Grantee agrees to limit its operations to the herein described rights-of-way. Grantee will be responsible for any damages caused by its operations on lands outside of the herein described rights-of-way. If the need for additional surface use arises, Grantor and Grantee agree to negotiate in good faith to reach an agreement substantially similar in form to this agreement for such use.
10. During the term of this agreement, it is recognized that more than one (1) instance of disturbance may occur to an area described herein, such as instances of repairing or replacing pipelines, etc. In such event, it is understood that Grantee shall reclaim such disturbed areas as soon as practical in accordance with federal, state, county, or local regulations or any other rules or regulations in force at such time by any regulatory authorities, and re-vegetate the area disturbed in accordance with the vegetation requirements of item 2 of these special stipulations. In the event an area is disturbed more than once, and reclaimed as specified herein, then in no event shall Grantor be due any further damages for Grantee's efforts to restore the surface of said lands.
11. It is recognized that the subject lands are used for grazing livestock at various times of the year. Grantor accepts no liability for damage done to facilities installed or improvements made on the property by Grantee as the result of the action of livestock grazing on said lands. It shall be the responsibility of the Grantee to take whatever measures it deems necessary and appropriate to keep livestock away from its facilities and improvements to said lands.
12. If so requested by Grantor, Grantee hereby agrees to install a maximum of three (3) cattle guards with gates on Grantors herein described property at such locations as determined by Grantor. The cattle guards shall be constructed to withstand and bear the weight of typical oil and gas drilling equipment and be wide enough to allow single lane traffic through said cattle guard. Said cattle guard must be constructed in a manner to prevent livestock from passing through/over said cattle guard, yet allowing traffic to pass through it unobstructed.
13. As to the access road, pipelines and power lines route described as route (B) on Exhibits "A" and "B" attached hereto, the following temporary use of surface applies: In addition to the right-of-way and easement described herein, Grantee shall have the right during temporary periods, temporary periods defined for purposes of this clause not to exceed one hundred twenty (120) consecutive days in any one period, to make use of additional lands adjacent and parallel to said right-of-way and easement as may be necessary in connection with Grantee's initial construction, additional construction, maintenance, repair, removal or replacement of said facilities, either in whole or in part. Said additional lands shall be thirty feet (30') in width lying ten feet (10') on either side of the said forty feet (40') permanent right-of-way and easement granted herein. Should Grantee's use of such temporary right-of-way and easement cause any damage to Grantor's lands outside of the described permanent right-of-way and easement, Grantee agrees to pay and Grantor hereby agrees to accept in US currency or other equal value the sum of two dollars (\$2.00) per rod for such lands actually damaged.

SIGNED FOR IDENTIFICATION


John N. Sampinos


Toula Sampinos

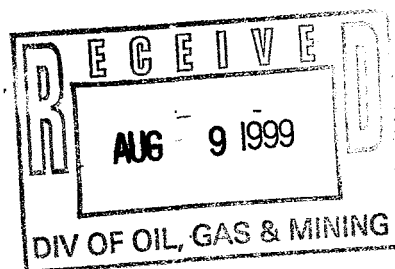

Joseph L. Stephenson

River Gas Corporation

1305 South 100 East
Price, Utah 84501-9637
(435) 637-8876
(435) 637-8924

RGCC

To: Lisha Cardona From: Don Hamilton
Fax: _____ Pages: 7
Phone: _____ Date: 8-9-99
Re: Sandpiper D-14 surface use CC: _____
☐ Urgent ☐ For Review ☐ FYI ☐ Please Reply ☐ Please Recycle



From the Desk of.....

Don S. Hamilton -

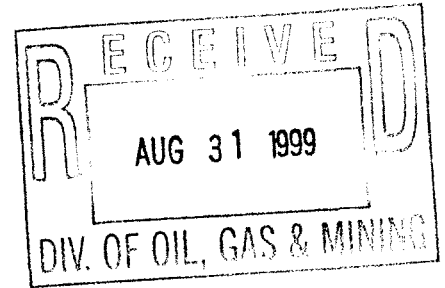
Permit Specialist

GEO SCOUT LAND & TITLE COMPANY

P.O. Box 11126 • SALT LAKE CITY, UTAH 84147 • (801) 364-7773

August 27, 1999

Mr. John Baza, Associate Director, Oil & Gas
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84180



Re: *River Gas Corporation*
Sampinos D-14
Section 16, Township 15 South, Range 10 East, SLM
Carbon County, Utah

Dear Mr. Baza:

Reference is made to the pending application for permit to drill ("APD") for the captioned well filed by our client River Gas Corporation (RGC). As you may recall, the well is to be drilled on fee lands. The APD was filed by RGC in June, 1999.

The lands on which this well is proposed to be located are currently subject to the Board's Order entered in Cause No. 137-2(B). Under that Order, drilling units of 160 acres were created and no well may be drilled closer than 1,000 feet from a unit boundary without an exception location. The captioned well is to be drilled at a location 1695' FSL and 2133' FEL in the NWSE of Section 16. The distance from the well to the northern and western boundaries of the unit comprised of the SE $\frac{1}{4}$ of Section 16 (as created under the Order in Cause No. 137-2(B)) is less than 1000 feet. The well cannot be located further south nor further east due to topographical restraints. As a consequence, an exception location under Utah Admin. Code R649-3-3-1.3 is required. ** Revised 9-2-99. LC*

Because the proposed location is north and west of the 1000 foot boundary allowed under the Order, the "offsetting" drilling units affected by the required exception location are the NE $\frac{1}{4}$ and the SW $\frac{1}{4}$ of Section 16 (also created under the Order in Cause No. 137-2(B)). As shown by the enclosed Affidavit, the "owners" within the NE $\frac{1}{4}$ and SW $\frac{1}{4}$ of Section 16 are "RGC" and Texaco Exploration and Production Inc. ("TEXEP"). RGC, by virtue of its application for the well, and TEXEP, by virtue of the enclosed Consent, have approved the exception location. With the information provided with this letter and contained in your file for the pending APD, all requirements for approval of an exception location have been satisfied. Your prompt approval is therefore requested.

August 25, 1999

If you have any further questions or concerns regarding this application, please do not hesitate to contact either me or Frederick M. MacDonald at Pruitt, Gushee & Bachtell (801)531-8446. On behalf of RGC, I thank you for your immediate attention to this matter.

Sincerely,

A handwritten signature in black ink, reading "Sally M. Sullivan". The signature is fluid and cursive, with the first name "Sally" and last name "Sullivan" clearly legible.

Sally M. Sullivan
GeoScout Land & Title Company

SMS:ss
7282.el
Enclosures
cc: Joseph L. Stephenson

AFFIDAVIT

STATE OF UTAH)
)
 :ss
COUNTY OF SALT LAKE)

Thomas P. Sullivan, being duly sworn upon his oath, deposes and states:

1. I am the President of GeoScout Land & Title Company ("GeoScout").
2. GeoScout is a company that specializes in mineral abstracts and mineral title searches. I have over twenty years experience in searching the real estate records of all Utah counties relating to oil, gas and other mineral title.
3. Based solely on the following title data provided to me by River Gas Corporation:
 - a. Drilling Title Opinion dated February 21, 1996 (effective October 15, 1995) covering the S $\frac{1}{2}$ SW $\frac{1}{4}$ of Section 16, Township 15 South, Range 10 East, SLM, prepared by the law firm of Pruitt, Gushee & Bachtell.
 - b. Drilling Title Opinion dated May 30, 1996, (effective February 14, 1996) covering the N $\frac{1}{2}$, N $\frac{1}{2}$ S $\frac{1}{2}$, of Section 16, Township 15 South, Range 10 East, SLM, prepared by the law firm of Pruitt, Gushee & Bachtell.

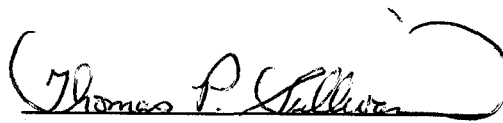
as supplemented by my review of the records of the Carbon County Recorder as indexed in the abstract (tract) indices against the said NE $\frac{1}{4}$ and SW $\frac{1}{4}$, on August 23, 1999, I have determined the following parties to be the "owners" (as that term utilized in the Utah Admin. Code Rule R649-3-3) within the said NE $\frac{1}{4}$ and SW $\frac{1}{4}$, which comprises the offsetting drilling units (the NE $\frac{1}{4}$ and the SW $\frac{1}{4}$ of said Section 16 as created under the Board of Oil, Gas & Mining's Order entered in Cause No. 137-2(B)) to the proposed Sampinos D-14 well located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of said Section 16:

TEXACO EXPLORATION AND PRODUCTION INC.

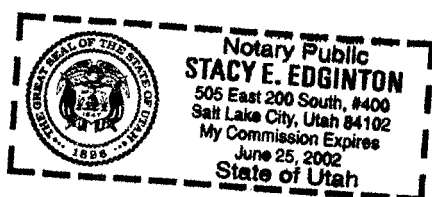
RIVER GAS CORPORATION

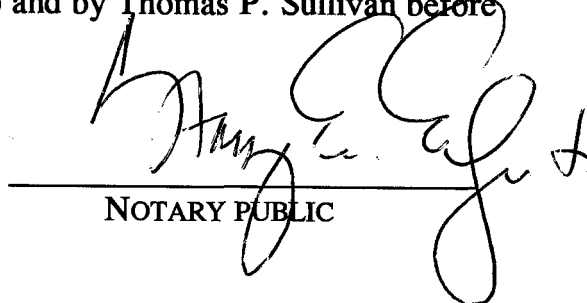
4. The matters state herein are true of my own knowledge.

Dated this 26th day of August, 1999.


THOMAS P. SULLIVAN

Subscribed, sworn and acknowledged to and by Thomas P. Sullivan before me this 26th day of August, 1999.




NOTARY PUBLIC

CONSENT TO EXCEPTION LOCATION

TEXACO EXPLORATION AND PRODUCTION, INC., P.O. Box 2100, Denver, CO 80201, an "owner" (as that term is utilized in Utah Admin. Code Rule R649-3-3) within the NE $\frac{1}{4}$ and the SW $\frac{1}{4}$ of Section 16, Township 15 South, Range 10 East, SLM, the two offsetting drilling units under the Order entered in Cause No. 137-2(B) to the Sampinos D-14 well proposed by River Gas Corporation, hereby consents to the requested exception location of that well as shown on the attached application for permit to drill.

Dated this 30 day of June, 1999.

TEXACO EXPLORATION AND PRODUCTION, INC.

By: Chuck Snure
Chuck Snure, Land Representative

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work: DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		6. Lease Designation and Serial Number: Patented
B. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> Water Disposal <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. If Tract, Acreage or Tract Name: N/A
2. Name of Operator: River Gas Corporation		7. Unit Agreement Name: N/A
3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (435)637-8876		8. Farm or Lease Name: Sampinos
4. Location of Well (Footage): At Surface: 1695' FSL, 2133' FEL At Proposed Producing Zone:		9. Well Number: D-14
14. Distance in miles and direction from nearest town or post office: 5.7 miles southeast of Price, Utah		10. Field or Pool, or Wellbore: undesigned
15. Distance to nearest property or lease line (feet): 507'		11. Oil/Gas, Section, Township, Range, Meridian: NW/4, SE/4 Section 16, T15S, R10E, SLB&M
16. Number of acres in lease: 185.33 acres		12. County: Carbon
17. Number of acres assigned to this well: n/a		13. State: UTAH
18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): none		20. Rotary or cable tools: Rotary
19. Proposed Depth: 5750'		22. Approximate date work will start: June 1999
21. Elevations (show whether DF, RT, GR, etc.): 5564' GR		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	40'	see attachment "D"
17-1/2"	13-3/8"	48#/ft	300'	see attachment "D"
12-1/4"	9-5/8"	36&40#/ft	1475'	see attachment "D"
8-3/4"	T"	26.29&32#/ft	5750'	see attachment "D"

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

CONFIDENTIAL

FILE COPY

24. Name & Signature: Don S. Hamilton Don S. Hamilton Title: Permit Specialist Date: 5/13/99

(This space for state use only)

API Number Assigned: _____

Approved: _____

township 15 south

N00°01'40"E - 5315.57' (Measured)

North - 5280.0' (Recorded)

Range 10 East

N89°00'46"E - 5287.3' (Measured)

East - 5261.5' (Recorded)

16

Drill hole D-14
Elevation 5563.7'

~ 49.7' East
of boundary
under Cause
No. 137-2(B)

55' West of
boundary
under Cause
No. 137-2(B)

1695.35'

2133.48'

NE Corner

East - 5284.5' (Recorded)
S89°55'59"W - 5314.3' (Measured)

S00°25'31"E - 2857.7' (Measured)
North - 5280.0' (Recorded)
S00°08'11"E - 2858.2' (Measured)

Location

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

Basis Of Elevation:

Basis of Elevation of 5812' as indicated in the SW Corner of Section 16, Township 15 South, Range 10 East, Salt Lake Base and Meridian, as shown on the Price Quadrangle 7.5 Minute Series Map.

Description of Well Point

Proposed Drill Hole located in the NW 1/4 SE 1/4 of Section 16; 1695.35' North and 2133.48' West from the SE Corner of Section 16, T15S, R10E, Salt Lake Base & Meridian.

Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



SCALE:

250' 0' 500' 1000'

MADE BY
P. BOYLEN

J.S.H.

4/28/00

1"=1000'

479

A-1

Castle Valley

2000 South 100 West
Panguitch, Utah 84650
(801) 637-8300
FAX (801) 637-8333



River Gas Corporation

Well# D-14

Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/17/1999

API NO. ASSIGNED: 43-007-30567

WELL NAME: SAMPINOS D-14
OPERATOR: RIVER GAS CORPORATION (N1605)
CONTACT: Don Hamilton (435) 637-8876

PROPOSED LOCATION:
NWSE 16 - T15S - R10E
SURFACE: 1695-FSL-2133-FEL
BOTTOM: 1695-FSL-2133-FEL
CARBON COUNTY
UNDESIGNATED FIELD (002)

LEASE TYPE: FEE
LEASE NUMBER:
SURFACE OWNER: Fee

INSPECT LOCATN BY: / /		
TECH REVIEW	Initials	Date
Engineering	<i>RSH</i>	6-2-99
Geology		
Surface		

PROPOSED FORMATION: NAVA

RECEIVED AND/OR REVIEWED:

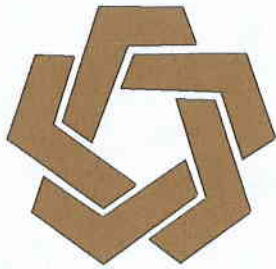
☒ Plat
☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 5308586)
☒ Potash (Y/N)
☒ Oil Shale (Y/N) *190-5(B)
☒ Water Permit
(No. PRWID)
☒ RDCC Review (Y/N)
(Date: _____)
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

☐ R649-2-3. Unit _____
☐ R649-3-2. General
☒ R649-3-3. Exception
☐ Drilling Unit
Board Cause No: _____
Date: _____
☐ R649-3-11. Directional Drill

COMMENTS: Need Presite. (Conducted 5-20-99)
Need add'l info. "Ex. Loc." (Rec'd 9-2-99)

STIPULATIONS: ① STATEMENT OF BASIS



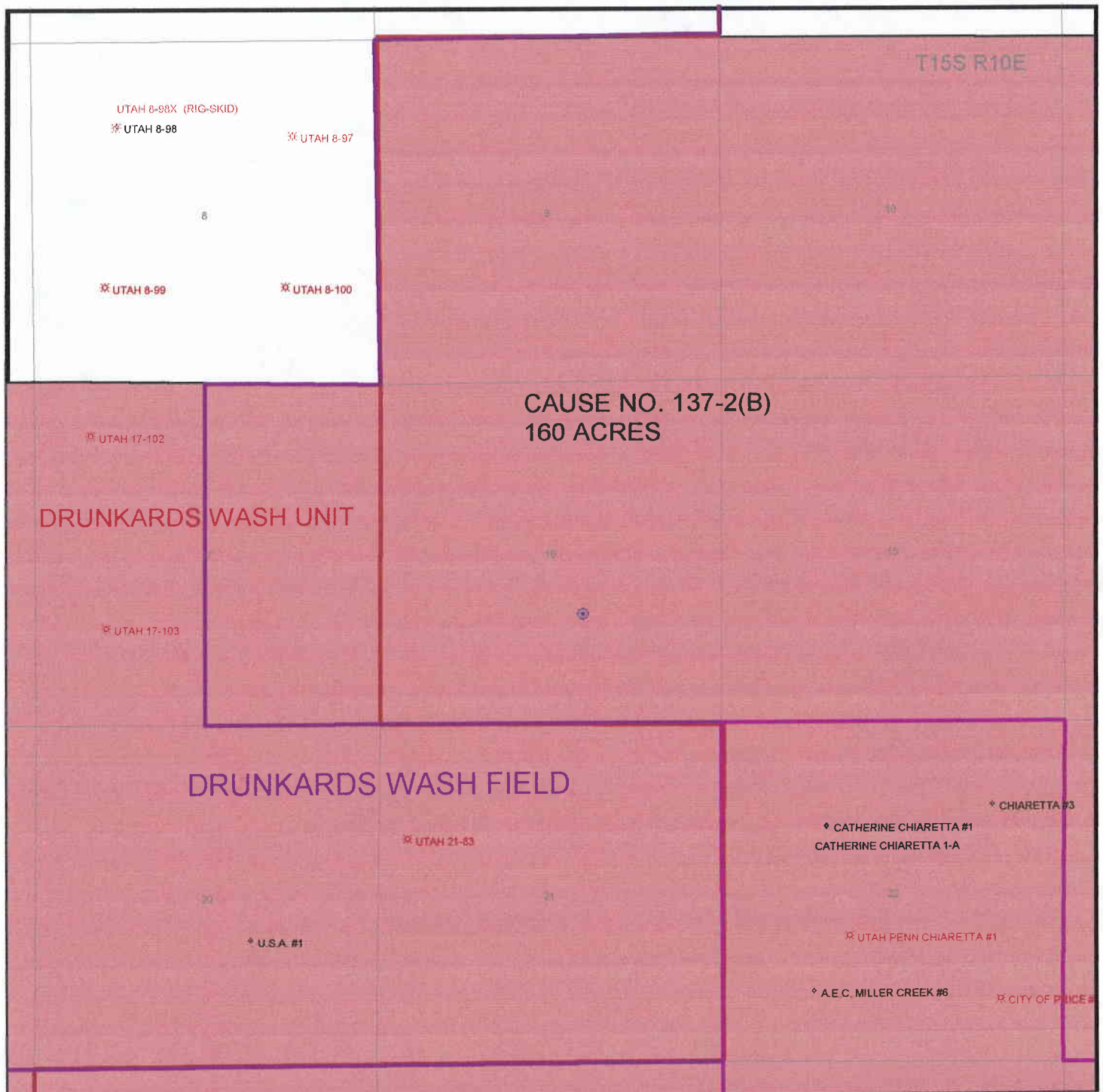
Division of Oil, Gas & Mining

OPERATOR: RIVER GAS CORPORATION (N1605)

FIELD: UNDESIGNATED (002)

SEC. 16, TWP 15S, RNG 10E

COUNTY: CRABON CAUSE No. 137-2B 160 ACRES



PREPARED
DATE: 18-MAY-1999

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: River Gas Corporation

WELL NAME & NUMBER: D-14

API NUMBER: 43-007-30567

LEASE: Fee FIELD/UNIT: undesigned

LOCATION: 1/4, 1/4 NWSE Sec: 16 TWP: 15S RNG: 10E 1695 FSL 2133 FEL

LEGAL WELL SITING: F SEC. LINE; F 1/4, 1/4 LINE; F ANOTHER WELL.

GPS COORD (UTM): 516,888; 4,374,067

SURFACE OWNER: River Gas Corporation is in the process of purchasing four acres containing this location. Current owner representative is Nick Sampinos (435)637-8100, @ 190 North Carbon Ave, Price, UT, 84501 for owners and parents John and Toula Sampinos.

PARTICIPANTS

C. Kierst (DOGM), D. Hamilton, G. Vasquez and C. Anderson (RGC), L. Jensen (Nelco), Bryant Anderson (Emery Co.). Current surface owner's representative elected to not attend.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Mancos Shale lowlands east of Wasatch Plateau (11.5 miles east)/ flat ground 1.25 miles south of Mancos Shale-derived alluvial erosional remnants. Gentle slope to Miller Creek (~300' southeast) and with Carbon Canal passing by 2/3 mile to the northwest.

SURFACE USE PLAN

CURRENT SURFACE USE: Agricultural land and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 415' X 300' pad with 150' X 60' X 12' reserve pit, a 50' X 50' X 10' spudder reserve pit and ~6000' of new approach road. I will require as a stipulation that the outer perimeter of the location that is up against the Miller Creek ravine (this would be the southeast side of the greater disposal pad) be stepped back (foreshortening the distance from the drill point to the southeast side of the pad) the greater of 20 feet or the depth from pad level to the flood plain in Miller Creek's ravine.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 2 P&A'd wells (4300730097 and 4300730089), 1 RGC producing gas well, and 1 unapproved permit location.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Residential utilities are approximately 0.5 mile away.

SOURCE OF CONSTRUCTION MATERIAL: gravel location and approach road; soil stored in berm.

ANCILLARY FACILITIES: none

WASTE MANAGEMENT PLAN:

Portable toilets; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOOD PLAINS AND/OR WETLANDS: Miller Creek is ~ 300' to the southeast of the drill point.

FLORA/FAUNA: greasewood, sparse grass/ birds, lizards, coyotes, rodents

SOIL TYPE AND CHARACTERISTICS: Silty, poorly to moderately-permeable, light gray, bentonitic; developed on Quaternary Slope Wash (ML).

SURFACE FORMATION & CHARACTERISTICS: Fine-grained Quaternary Slope Wash on Mancos Shale, light gray, bentonitic.

EROSION/SEDIMENTATION/STABILITY: Unstable just off pad @ east corner and just on pad @ the center of the southeast side.

PALEONTOLOGICAL POTENTIAL: poor

RESERVE PIT

CHARACTERISTICS: natural soil, dugout

LINER REQUIREMENTS (Site Ranking Form attached): Synthetic liner.

SURFACE RESTORATION/RECLAMATION PLAN

As per Surface Owner Agreement.

SURFACE AGREEMENT: No Surface Owner Agreement pending River Gas purchase of location property (4 acres).

CULTURAL RESOURCES/ARCHAEOLOGY: Fee land - no survey required.

OTHER OBSERVATIONS/COMMENTS

A Conditional Use Permit must be obtained from Carbon County. The property is zoned Residential/Agricultural-20. Location was modified for dimensions, roads, number of pits and slope direction.

ATTACHMENTS:

4 photographs (37-40)

Chris Kierst
DOGM REPRESENTATIVE

5/20/99/ 10:20 AM
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>2</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>5</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>0</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>8</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

Final Score

20

(Level I Sensitivity)

DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS

Operator Name: River Gas Corporation

Name & Number: D -14

API Number: 43-007-30567

Location: 1/4, 1/4 NWSE Sec. 16 T. 15S R. 10E

Geology/Ground Water:

An aquifer containing a minor ground water resource is expected to be encountered along Miller Creek in saturated soil. The proposed casing and cement program will adequately isolate any zones of water penetrated.

Reviewer: C. Kierst

Date: 5/26/99

Surface:

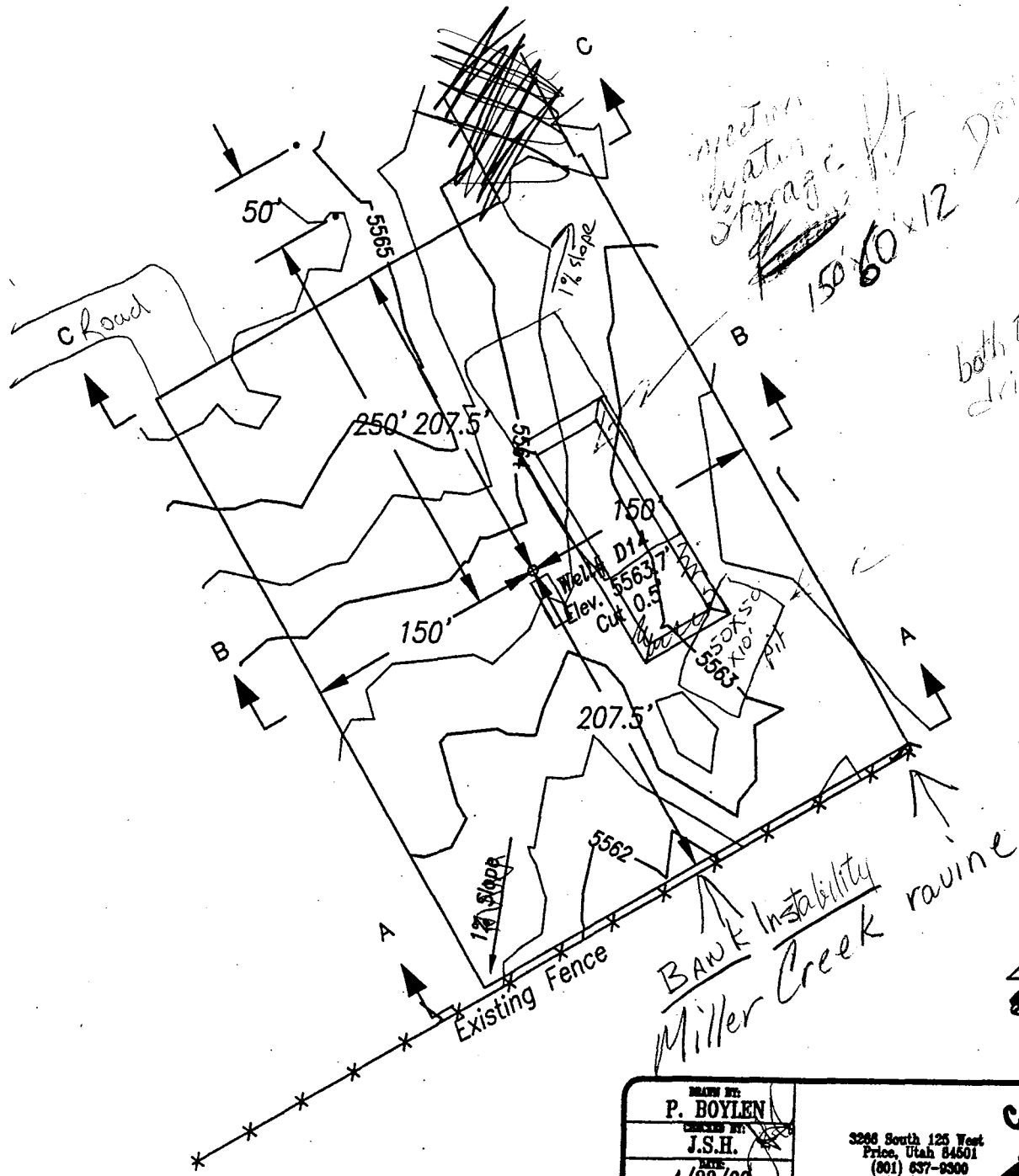
The soil developed on Quaternary Slope Wash, while relatively impermeable, is unstable and has incised or undermined the area immediately beside the perimeter of the proposed disturbed area. The nearest moving surface waters are the Carbon Canal and Miller Creek, 2/3 mile and 300' distant, respectively. Precipitation will be deflected around the location with berms and culverts. There are no nearby culinary or irrigation water supply wells. The site was photographed and characterized on 5/20/99. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. The well utilities and gas gathering system will follow the approach roadway.

Reviewer: C. Kierst

Date: 5/26/99

Conditions of Approval/Application for Permit to Drill:

- 1) Culverts sufficient to manage expected runoff, standing and surface water in crossed drainages.
- 2) Berm the useable area of the location and pits, deflecting runoff water away from the southeast side of the location.
- 3) Site infrastructure as per modified drilling location plat.
- 4) Minimum 12 mil synthetic liner is required.
- 5) Compliance with local ordinances as well as DOGM requirements.
- 6) Soil storage as per modified drilling location plat.
- 7) Backfill the small drainage eroding the center of the southeast side of the location.
- 8) From the drill point, step the southeastern dimension of the location back the greater of 20' or the depth from pad level to the flood plain of Miller Creek in its ravine.



Injection
Water
Storage

Drilling Pit
150' x 60' x 12'
both to be drilled in
drilling
Drilling
Reservoir
Pit

Elevation Ungraded Ground at Location Stake = 5563.7'
Elevation Graded Ground at Location Stake = 5563.2'

DRAWN BY: P. BOYLEN		
CHECKED BY: J.S.H.		
DATE: 4/28/99		
SCALE: 1"=100'		
SHEET NO. 478		3266 South 125 West Price, Utah 84501 (801) 637-9300 FAX (801) 637-2533
DRAWING NO. A-2		
2 of 4		
River Gas Corporation Location Layout Section 16, T16S, R10E, S1B&M. Well# D-14		

Well name:

699 RGC UIC D-14

Operator: River Gas Corp.

String type: Surface

Project ID:

43-007-30356

Location: Carbon County

Design parameters:**Collapse**

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No

Surface temperature: 75 °F

Bottom hole temperature: 79 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 290 ft

Cement top: 30 ft

Burst

Max anticipated surface pressure:

-3,236 psi

Internal gradient: 11.221 psi/ft

Calculated BHP 130 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 263 ft

Re subsequent strings:

Next setting depth: 7,500 ft

Next mud weight: 9.000 ppg

Next setting BHP: 3,506 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 7,500 ft

Injection pressure 7,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	300	13.375	48.00	H-40	ST&C	300	300	12.59	28.2

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	130	740	5.70	130	1730	13.33	13	322	25.47 J

Prepared RJK
by: Utah Dept. of Natural Resources

Date: June 2, 1999
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Conductor and surface casing shall be cemented to surface.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

699 RGC UIC D-14Operator: **River Gas Corp.**

String type: Intermediate

Project ID:

43-007-30356

Location: Carbon County

Design parameters:**Collapse**

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No

Surface temperature: 75 °F

Bottom hole temperature: 96 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,475 ft

Cement top: 432 ft

Burst

Max anticipated surface pressure: 0 psi

Internal gradient: 0.433 psi/ft

Calculated BHP 638 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Non-directional string.

Re subsequent strings:

Next setting depth: 8,000 ft

Next mud weight: 8.330 ppg

Next setting BHP: 3,462 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 8,000 ft

Injection pressure 8,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1475	9.625	36.00	K-55	LT&C	1475	1475	8.765	105
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	638	2020	3.16	638	3520	5.51	47	489	10.50 J

Prepared RJK
by: Utah Dept. of Natural ResourcesDate: June 2, 1999
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Conductor and surface casing shall be cemented to surface.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 1475 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	699 RGC UIC D-14		
Operator:	River Gas Corp.		
String type:	Production	Project ID:	43-007-30356
Location:	Carbon County		

Design parameters:
Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 156 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 368 ft

Cement top: 1,999 ft

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.433 psi/ft
Calculated BHP 2,488 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 5,028 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	5750	7	26.00	L-80	LT&C	5750	5750	6.151	301.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2488	5410	2.17	2488	7240	2.91	131	511	3.91 J

Prepared RJK
by: Utah Dept. of Natural Resources

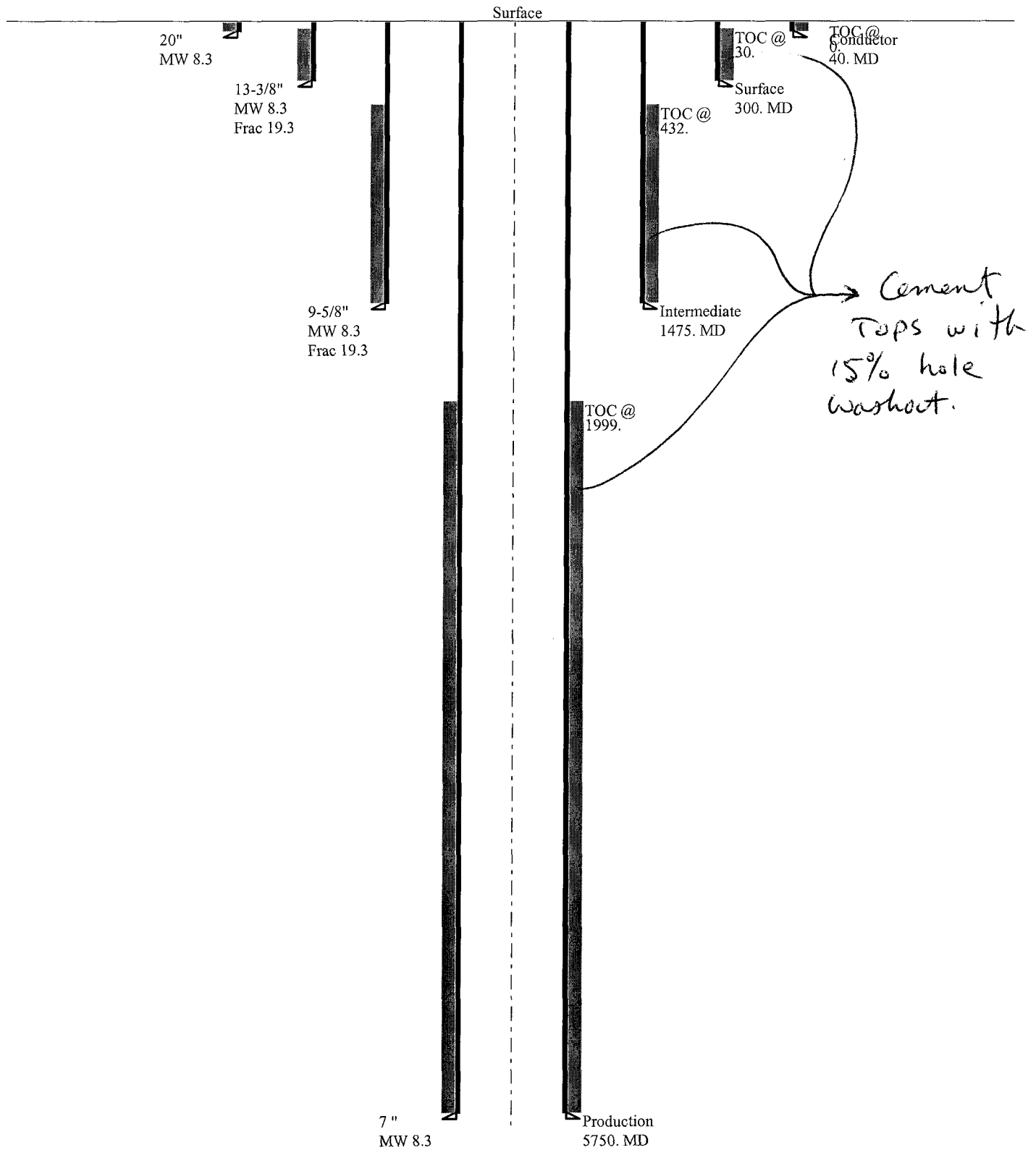
Date: June 2, 1999
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Conductor and surface casing shall be cemented to surface.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 5750 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

699 RGC UIC D-14

Casing Schematic





State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

September 2, 1999

River Gas Corporation
1305 South 100 East
Price, Utah 84501

Re: Sampinos D-14 Well, 1695' FSL, 2133' FEL, NW SE, Sec. 16, T. 15 S., R. 10 E., Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM by the operator and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30567.

Sincerely,

John R. Baza
Associate Director

lwp

Enclosures

cc: Carbon County Assessor
Bureau of Land Management, Moab District Office

Operator: River Gas Corporation

Well Name & Number: Sampinos D-14

API Number: 43-007-30567

Lease: Fee **Surface Owner:** Fee

Location: NW SE **Sec.** 16 **T.** 15 S. **R.** 10 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division of the following actions during drilling of this well:

- . 24 hours prior to cementing or testing casing
- . 24 hours prior to testing blowout prevention equipment
- . 24 hours prior to spudding the well
- . within 24 hours of any emergency changes made to the approved drilling program
- . prior to commencing operations to plug and abandon the well

Division contacts (please leave a voice mail message if person is not available to take the call):

- . Dan Jarvis at (801) 538-5338
- . Robert Krueger at (801) 538-5274 (plugging)
- . Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

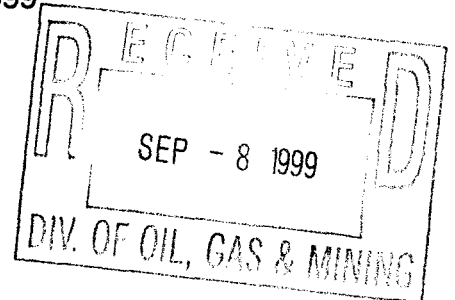
GEO SCOUT LAND & TITLE COMPANY

P.O. Box 11126 • SALT LAKE CITY, UTAH 84147 • (801) 364-7773

CONFIDENTIAL

September 2, 1999

Mr. John Baza, Associate Director, Oil & Gas
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84180



Re: *River Gas Corporation*
Sampinos D-14
Section 16, Township 15 South, Range 10 East, SLM
Carbon County, Utah

Dear Mr. Baza:

Reference is made to the pending application for permit to drill ("APD") for the captioned well filed by our client River Gas Corporation (RGC). As you may recall, the well is to be drilled on fee lands. The APD was filed by RGC in June, 1999.

The lands and formation on which this disposal well is proposed to be located are not subject to a spacing order, *i.e.* general state spacing under Utah Admin. Code Rule R649-3-2 applies. The well is proposed at a location 1695' FSL and 2133' FEL in the NWSE of Section 16, which is outside the "window" allowed under the general state spacing rule. The well cannot be located within the "window" because of topographical restraints. As a consequence, an exception location under Utah Admin. Code R649-3-3-1.2 is required.

As shown by the submitted Affidavit, the "owners" within a 460 foot radius of the proposed location are RGC and Texaco Exploration and Production Inc. ("TEXEP"). RGC, by virtue of its application for the well, and TEXEP, by virtue of the submitted Consent, have approved the exception location. With the information provided with this letter and contained in your file for the pending APD, all requirements for approval of an exception location have been satisfied. Your prompt approval is therefore requested.

August 25, 1999

If you have any further questions or concerns regarding this application, please do not hesitate to contact either me or Frederick M. MacDonald at Pruitt, Gushee & Bachtell (801)531-8446. On behalf of RGC, I thank you for your immediate attention to this matter.

Sincerely,



Sally M. Sullivan
GeoScout Land & Title Company

SMS:ss
7282.el
Enclosures
cc: Joseph L. Stephenson

Range 10 East

N89°05'46"E - 5287.8' (Measured)
East - 5281.5' (Recorded)

township 15 south

N00°01'40"E - 5315.57' (Measured)
North - 5280.0' (Recorded)

16

South Boundary of the
allotted window under
R644-3-2

Drill hole D-14
Elevation 5563.7'

2133.48'

± 85'

1695.35'

SE Corner

East - 5284.5' (Recorded)
S89°55'59"W - 5314.3' (Measured)

LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



SCALE:

250' 0' 500' 1000'

Location

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

Basis Of Elevation:

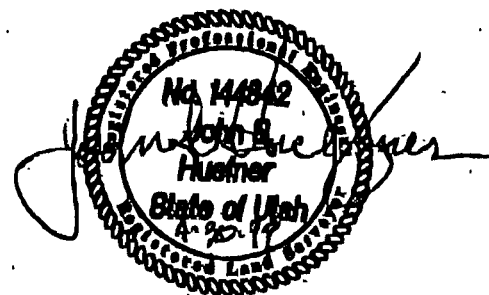
Basis of Elevation of 5812' as indicated in the SW Corner of Section 16, Township 15 South, Range 10 East, Salt Lake Base and Meridian, as shown on the Price Quadrangle 7.5 Minute Series Map.

Description of Well Point

Proposed Drill Hole located in the NW 1/4 SE 1/4 of Section 16; 1695.35' North and 2133.48' West from the SE Corner of Section 16, T15S, R10E, Salt Lake Base & Meridian.

Surveyor's Certificate:

I, John B. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



MADE BY	P. BOYLEN
CHECKED BY	J.S.H.
DATE	4/25/00
SCALE	1"=1000'
NO. OF SHEETS	479
SHEET NO.	A-1
DATE	1 11 4

Cedar Valley	
2000 South 100 West P.O. Box 1000 Cedar, Utah 84601 (435) 497-0000 fax (435) 497-0001	
River Gas Corporation Well# D-14 Section 16, T15S, R10E, S.L.B.&M. Carbon County, Utah	

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: RIVER GAS CORPORATION

Well Name: SAMPINOS D-14

Api No. 43-007-30567 Lease Type: FEE

Section 16 Township 15S Range 10E County CARBON

Drilling Contractor BILL MARTIN OR CYCLONE RIG #

SPUDDED:

Date 05/05/2000

Time 2:00 PM

How DRY HOLE

Drilling will commence

Reported by FRANKIE HATHAWAY

Telephone # 1-435-613-9777

Date 05/04/2000 Signed: CHD

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well

Footages: 1695' FSL, 2133' FEL

QQ, Sec., T., R., M.: NW/SE SEC. 16, T15S, R10E, SLB & M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Sampinos D-14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Undesignated

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Spud Notice</u> | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that the Sampinos D-14 disposal well was spud on 5/5/2000 at 12:30 pm.
Beeman Drilling Rig
Dry Drill

RECEIVED

MAY 12 2000

DIVISION OF
OIL, GAS AND MINING

13.

Name & Signature: Frankie Hathaway *Frankie Hathaway* Title: Administrative Assistant Date: 5/10/2000

(This space for state use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR River Gas Corporation
ADDRESS 6825 S. 5300 W. P.O. Box 851
Price, UT 84501

OPERATOR ACCT. NO. N1605

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12729	43-007-30567	Sampinos D-14	NWSE	16	15S	10E	Carbon	5/5/00	
WELL 1 COMMENTS: New single well, new spud outside PA but within Unit boundary (Disposal Well) <i>000518 entity added.</i>											
B	99999	12730	43-015-30424	USA 10-362	SWNW	10	16S	09E	Emery	5/7/00	
WELL 2 COMMENTS: New single well, new spud outside PA but within Unit boundary <i>000518 entity added.</i>											
B	99999	12731	43-015-30380	Utah 08-357	NWSE	08	16S	09E	Emery	5/9/00	
WELL 3 COMMENTS: New single well, new spud outside PA but within Unit boundary <i>000518 entity added.</i>											
WELL 4 COMMENTS:											
NN											
WELL 5 COMMENTS:											

ACTION CODES (See Instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

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MAY 15 2000

DIVISION OF
OIL, GAS AND MINING

Frankie Hathaway

Signature

Administrative Assistant 5/10/00

Title Date

Phone No. (435)613-9777

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well

Footages: 1695' FSL, 2133' FEL

QQ, Sec., T., R., M.: NW/SE SEC. 16, T15S, R10E, SLB & M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Sampinos D-14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Drunkards Wash

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Weekly Report</u> | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See Attached

RECEIVED

MAY 15 2000

DIVISION OF
OIL, GAS AND MINING

CONFIDENTIAL

13.

Name & Signature: Frankie Hathaway *Frankie Hathaway* Title: Administrative Assistant Date: 5/15/2000

(This space for state use only)

Page 1 of 3

Drilling Data

DAY 1 5/6/2000

CURRENT DEPTH: 90 CURRENT OPERATIONS: drilling 12 1/4in pilot hole ROTATING HRS: 7.00
7am-9am move Beeman on location, 9am-12pm r/up, 12pm-7pm p/up 12 1/4in tri-cone drill pilot hole to 90ft, pooh,

Estimated Daily Cost:

DAY 2 5/7/2000

CURRENT DEPTH: 150 CURRENT OPERATIONS: drilling 17 1/2in hole ROTATING HRS: 0.00
7am-11am p/up 24in tri-cone, drill to 60ft, pooh, 11am-1pm rih w/ 60ft 20in conductor pipe, 1pm-1:30pm dump 5yards ready-mix cement behind conductor, 1:30pm-6pm woc, prep to drill 17 1/2in hole, 6pm-1am work on rig, p/up 17 1/2in hammer tih, 1am-7am drilling @ 150ft,

Estimated Daily Cost:

DAY 3 5/8/2000

CURRENT DEPTH: 328 CURRENT OPERATIONS: break loose cement head ROTATING HRS: 0.00
7am-2pm drill 150-328ft, 2pm-3pm clean hole, 3pm-5:30pm pooh laying down collars, 5:30pm-6pm prep to run 13 3/8in casing, 6pm-8:30pm rih w/ 13 3/8in guide shoe + 7jts 13 3/8in casing land casing @ 313.10ft, 8:30pm-8:45pm r/up dowell, 9pm-9:45pm cement 13 3/8in surface casing, close valve @ 9:45pm 5/7/00, 20bbl cement to surface, 9:45pm-7am r/up blouie line, woc

Estimated Daily Cost:

DAY 4 5/9/2000

CURRENT DEPTH: 328 CURRENT OPERATIONS: n/up bop ROTATING HRS: 0.00
7am-8am remove cement head, start to n/up bop, location very muddy could not get around w/ equipment, tearing up location, 8am-7am s/down f/ location to dry

Estimated Daily Cost:

DAY 5 5/10/2000

CURRENT DEPTH: 400 CURRENT OPERATIONS: drilling 12 1/4in hole @ 400ft ROTATING HRS: 4.25
7am-6pm n/up bop & manifold, run blouie line, 6pm-7pm r/up tester, 7pm-8pm retighten flange bolts, 8pm-9pm test bop, manifold & casing, 9pm-1:30am break down hammer, p/up new hammer, 1:30am-2:45am tih, tag cement @ 240ft, 2:45am-4am drill out cement, 4am-7am drill 12 1/4in hole to 400ft

Estimated Daily Cost:

DAY 6 5/11/2000

CURRENT DEPTH: 1492 CURRENT OPERATIONS: prep to mud up ROTATING HRS: 0.00
7am-7pm drill 400ft-1050ft, 7pm-4:30am drill 1050ft-1492ft, hole sloughing in on hammer, 4:30am-7am p/up & prep to mud up hole,

Estimated Daily Cost:

DAY 7 5/12/2000

CURRENT DEPTH: 1462 CURRENT OPERATIONS: drilling @ 1462 ROTATING HRS: 4.50
7am-12pm r/up lines & wait on mud equipment to arrive, 12pm-5pm set mud equipment, 5pm-8pm mix mud, 8pm-10:30pm tooh to change bit, 10:30pm-2:30am change bit rih, 2:30am-6:30am tag 90ft fill mix tub of mud, 6:30am-7am drilling on new hole @ 1462

Estimated Daily Cost:

DAY 8 5/13/2000

CURRENT DEPTH: 1555 CURRENT OPERATIONS: tooh ROTATING HRS: 17.5
7am-10am drill 12 1/4in hole 1462-1472ft, (pump acting up low pump pressure), 10am-2pm drill 1472-1493ft (pump working better), 2pm-4pm drill 1493-1508ft working on pump, 4pm-7pm drill 1508-1520ft, 7pm-11pm drill 1520-1535ft, 11pm-11:30pm work on packing, 11:30pm-1am drill 1535-1555ft, 1am-2am circulate on bottom, 2am-4am short trip to 1000ft, 4am-4:30am work on packing, 4:30am-5:30am circulate on bottom 5:30am-7am tooh

Estimated Daily Cost:

DAY 9 5/14/2000

CURRENT DEPTH: 1555 CURRENT OPERATIONS: woc ROTATING HRS: 0.00

7am-10am finish tooh laying down pipe,& collars, 10am-10:30am r/up loggers, 10:30am-12pm log well,
12pm-12:30pm r/down loggers, 12:30pm-1pm r/up casing crew, 1pm-1:30pm float shoe cracked wait on another,
1:30pm-5:30pm p/up 9 5/8in float shoe, 1jt 9 5/8in csg, 9 5/8in float collar, + 34 jts 9 5/8in csg, rih land casing @
1542ft g.l., 5:30pm-6:30pm r/up dowell, 6:30pm-7:35pm cement intermediate casing, bump plug @ 7:35pm
5/13/00, 6bbl good cement to surface, 7:35pm-7am woc,

Estimated Daily Cost: [REDACTED]

DAY 10 5/15/2000

CURRENT DEPTH: 1555 CURRENT OPERATIONS: n/down bop ROTATING HRS: 0.00

7am-3pm n/down bop, r/down, start moving to d-9, 3pm-7am s/down

Estimated Daily Cost: [REDACTED]

Cum. Estimated Daily Cost: [REDACTED]

Frac Data

Completion Data

RECEIVED
MAY 15 2000
OIL FIELD UNIT
OIL FIELD UNIT

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER: **CONFIDENTIAL**

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well

Footages: 1695' FSL, 2133' FEL

QQ, Sec., T., R., M.: NW/4 SE/4 SEC. 16, T13S, R10E, SLB & M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

Drunkards Wash UTU-67921X

8. Well Name and Number:

Sampinos D14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Drunkards Wash

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Spud Notice</u> | |

Date of work completion _____
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that the Sampinos D14 well was spud on 5/05/00 12:30 pm.
Cyclone
Dry Drill

RECEIVED

JUN 21 2000

DIVISION OF
OIL, GAS AND MINING

13.

Name & Signature: Frankie Hathaway *Frankie Hathaway* Title: Administrative Assistant Date: 6/21/2000

(This space for state use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR River Gas Corporation
ADDRESS 6825 S. 5300 W. P.O. Box 851
Price, UT 84501

OPERATOR ACCT. NO. _____

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12729	43-007-30567	Sampinos D-14	NWSE	16	15S	10E	Carbon	5/5/00	5/1/00
WELL 1 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL 000518 Entity Added.											
B	99999	12771	43-007-30438	Utah D-9	SENW	32	14S	09E	Carbon	5/22/00	5/1/00
WELL 2 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL 000623 Entity Added											
B	99999	12772	43-015-30399	Utah 04-281	SWSW	04	16S	09E	Emery	6/15/00	5/1/00
WELL 3 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL 000623 Entity Added											
B	99999	12773	43-015-30397	Utah 09-360	SWSW	09	16S	09E	Emery	6/16/00	5/1/00
WELL 4 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL 000623 Entity Added											
B	99999	12774	43-015-30408	Utah 09-361	NWSE	09	16S	09E	Emery	6/18/00	5/1/00
WELL 5 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL 000623 Entity Added.											

ACTION CODES (See Instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

JUN 23 2000

DIVISION OF
OIL, GAS AND MINING

Frankie Hathaway
Signature

Administrative Assistant 6/21/00

Title Date

Phone No. (435)613-9777

RECEIVED

JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR RIVER GAS CORPORATION
ADDRESS P.O. BOX 851
PRICE, UT 84501

Well name and number: RGC D-14

Field or Unit name: UNDESIGNATED Lease no. FEE

Well location: QQ NW/4 SE/4 section 16 township 15 range 10 county CARBON

Is this application for expansion of an existing project? . . Yes ☒ No ☐

Will the proposed well be used for: Enhanced Recovery? . . Yes ☐ No ☒
Disposal? Yes ☒ No ☐
Storage? Yes ☐ No ☒

Is this application for a new well to be drilled? Yes ☐ No ☒

If this application is for an existing well,
has a casing test been performed on the well? Yes ☒ No ☐

Date of test: 7/1/2000
API number: 43-007-30567

Proposed injection interval: from 4558 to 5281 1700
contingent upon new pressure
Proposed maximum injection: rate 5 BPM pressure 2250 psig

Proposed injection zone contains ☐ oil, ☐ gas, and/or ☐ fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: _____

I certify that this report is true and complete to the best of my knowledge.

Name CALEN HURT Signature Calen Hurt
Title DEVELOPMENT MANAGER Date 6/27/00
Phone No. (435) 613-9777

(State use only)

Application approved by _____ Title _____
Approval Date _____

Comments:

Township 15 South

N00°01'40"E - 5315.57' (Measured)
North - 5280.0' (Recorded)

Range 10 East

N89°55'46"E - 5287.3' (Measured)
East - 5261.5' (Recorded)

16

DIVISION OF
OIL, GAS AND MINING

JUL 03 2000

RECEIVED

Drill hole D-14
Elevation 5563.7'

2133.48'

1695.35'

SE Corner

East - 5264.8' (Recorded)
S89°55'56"W - 5314.3' (Measured)

Location

The Bearings Indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

Basis Of Elevation:

Basis of Elevation of 5612' as indicated in the SW Corner of Section 16, Township 15 South, Range 10 East, Salt Lake Base and Meridian, as shown on the Price Quadrangle 7.5 Minute Series Map.

Description of Well Point

Proposed Drill Hole located in the NW 1/4 SE 1/4 of Section 16; 1695.35' North and 2133.48' West from the SE Corner of Section 16, T15S, R10E, Salt Lake Base & Meridian.

Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



SCALE:

250' 0' 500' 1000'

DRAWN BY:	P. BOYLEN
CHECKED BY:	J.S.H.
DATE:	4/28/99
SCALE:	1"=1000'
REV NO.	479
DRAWING NO.	A-1
SHEET	1 of 4

Castle Valley
3226 South 125 West
Price, Utah 84501
(801) 637-9300
FAX (801) 637-2833

Southern

River Gas Corporation
Well# D-14
Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah



RIVER GAS CORPORATION

UTAH OPERATIONS
6825 South 5300 West
P.O. Box 851
Price, Utah 84501
Bus. (435) 613-9777
FAX (435) 613-9782

June 30, 2000

Mr. Gil Hunt
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Application for Injection Well: RGC D-14
NW1/4SE1/4 Section16, T15S, R10E, SLB&M
Carbon County, Utah

Dear Mr. Hunt:

Enclosed please find the original of the Application for Injection Well for the above name well, D-14.
Included with the UIC Form 1 is the following information:

- Exhibit "A" - Survey Plat of the Proposed Well Site;
- Exhibit "B" - Maps Depicting Nearby Wells and Land Ownership;
- Exhibit "C" - Statement Regarding Logs Performed on the Well;
- Exhibit "D" - Description of the Casing Program;
- Exhibit "E" - Description of the Fluid Types;
- Exhibit "F" - Statement of the Injection Pressures;
- Exhibit "G" - Statement of Geologic and Hydrologic Data;
- Exhibit "H" - Statement of Affidavit;

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JUL 03 2000

DIVISION OF
OIL, GAS AND MINING

Mr. Gil Hunt
June 30, 2000
Page Two

Thank you for your timely consideration of this application. Please feel free to contact me if you have any questions or find any deficiencies.

Sincerely,

A handwritten signature in black ink, appearing to read "Callen Hurtt", with a stylized flourish at the end.

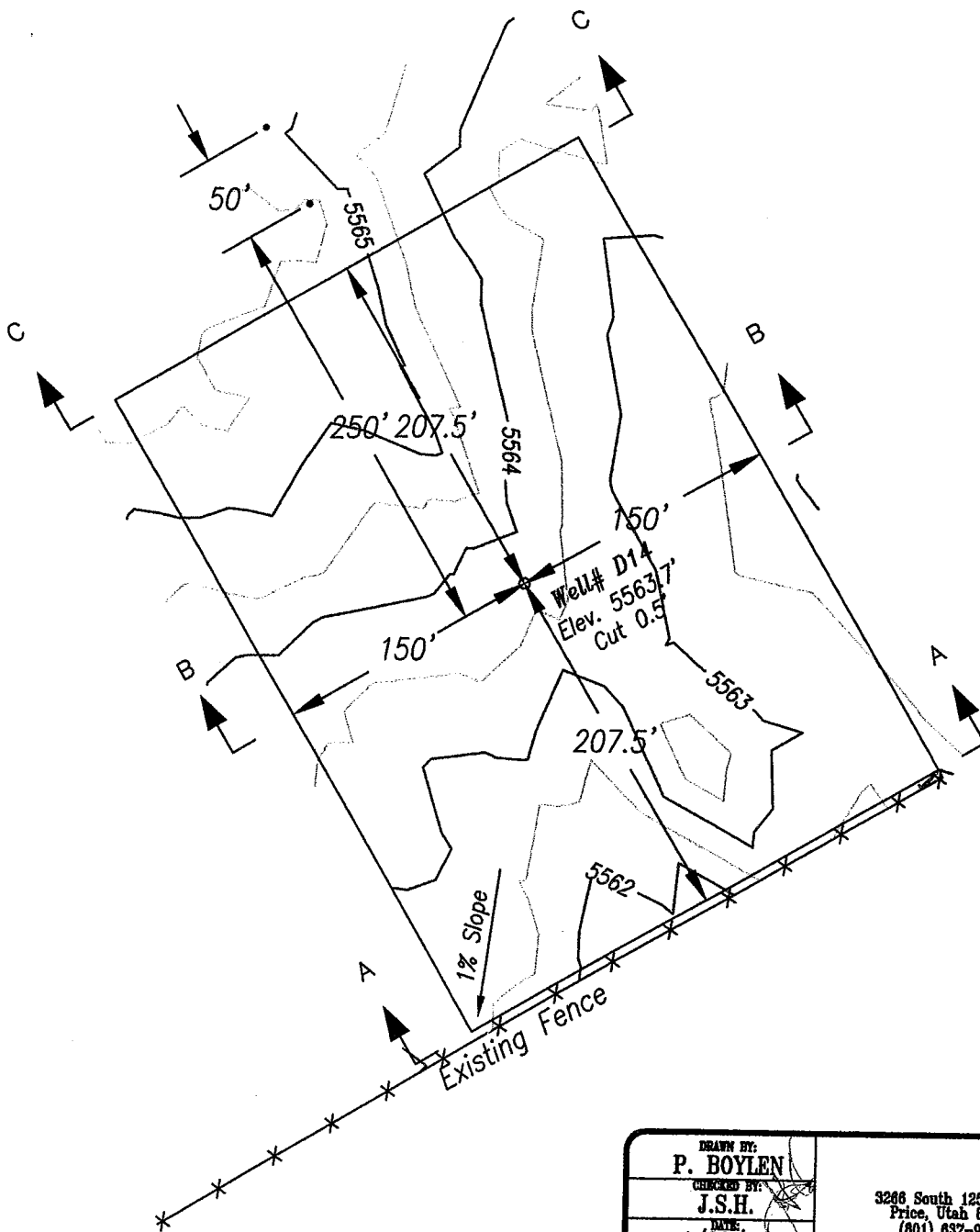
Callen Hurtt
Development Manager

cc: Mr. John Baza, UDOGM
Mr. Chuck Snure, Texaco
Mr. Gee Lake, Jr., Dominion Resources
Mr. Greg Mueller, RGC
Mr. Joey Stephenson, RGC
Mr. John Hollingshead, RGC
RCG Well File – RGC D-14

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JUL 03 2000

DIVISION OF
OIL, GAS AND MINING



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JUL 03 2000

DIVISION OF
OIL, GAS AND MINING



Services

3296 South 125 West
Price, Utah 84501
(801) 637-9300
FAX (801) 637-2833

River Gas Corporation
Location Layout
Section 16, T16S, R10E, S.L.B.&M.
Well# D-14

DRAWN BY:
P. BOYLEN

CHECKED BY:
J.S.H.

DATE:
4/28/99

SCALE:
1"=100'

JOB NO.
478

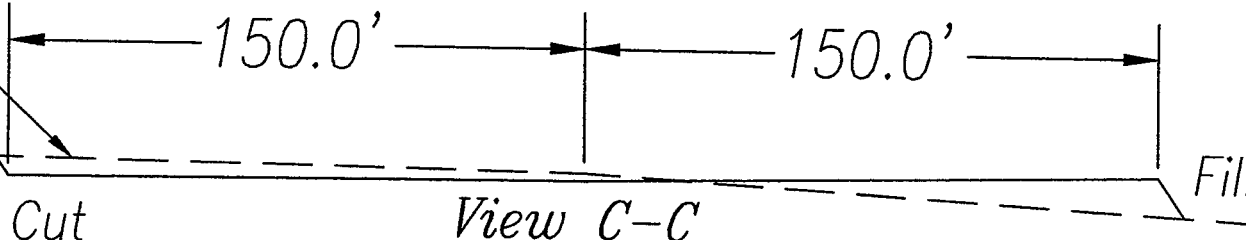
DRAWING NO.
A-2

SHEET **2** OF **4**

Elevation Ungraded Ground at Location Stake = 5563.7'
Elevation Graded Ground at Location Stake = 5563.2'

Preconstruction
Grade

1"=10'
X-Section
Scale
1"=50'

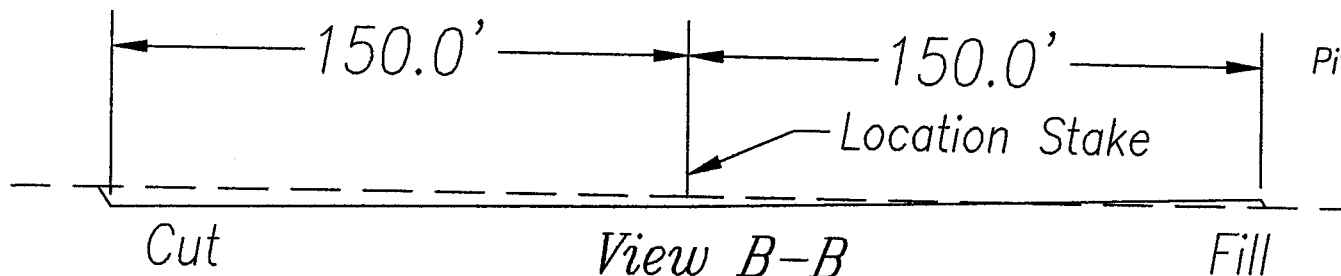


Cut

View C-C

Fill

Slope = 1 1/2 : 1
(Except Pit)
Pit Slope = 1 : 1

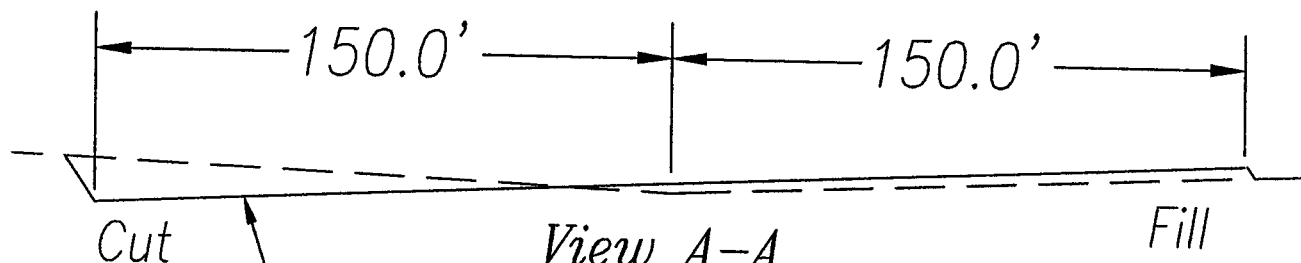


Cut

View B-B

Fill

Location Stake



Cut

View A-A

Fill

Final Grade

RECEIVED
JUL 03 2000
DIVISION OF
OIL, GAS AND MINING

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1265.0 Cu. Yds.
Remaining Location	= 1,783.3 Cu. Yds.
TOTAL CUT	= 3,048.3 Cu. Yds.
TOTAL FILL	= 778.1 Cu. Yds.

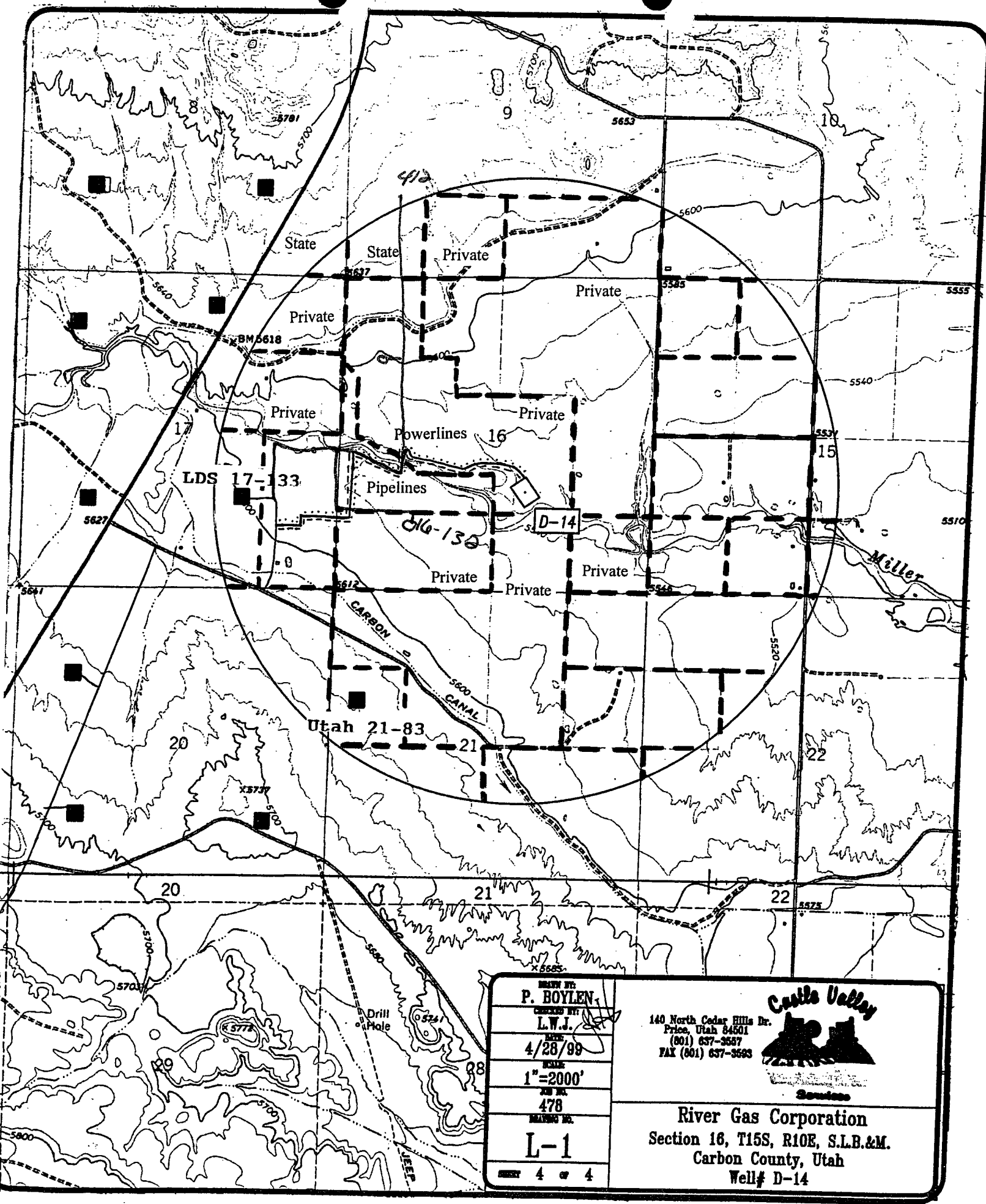
DRAWN BY:	P. BOYLEN
CHECKED BY:	J.S.H.
DATE:	4/29/99
SCALE:	As Shown
JOB NO.	478
DRAWING NO.	C-1
SHEET	3 OF 4

Castle Valley
3266 South 125 West
Preston, Utah 84501
(801) 637-9300
FAX (801) 637-2833



Services

River Gas Corporation
Typical Cross Sections
Section 16, T15S, R10E, S.L.B&M.
Well# D-14

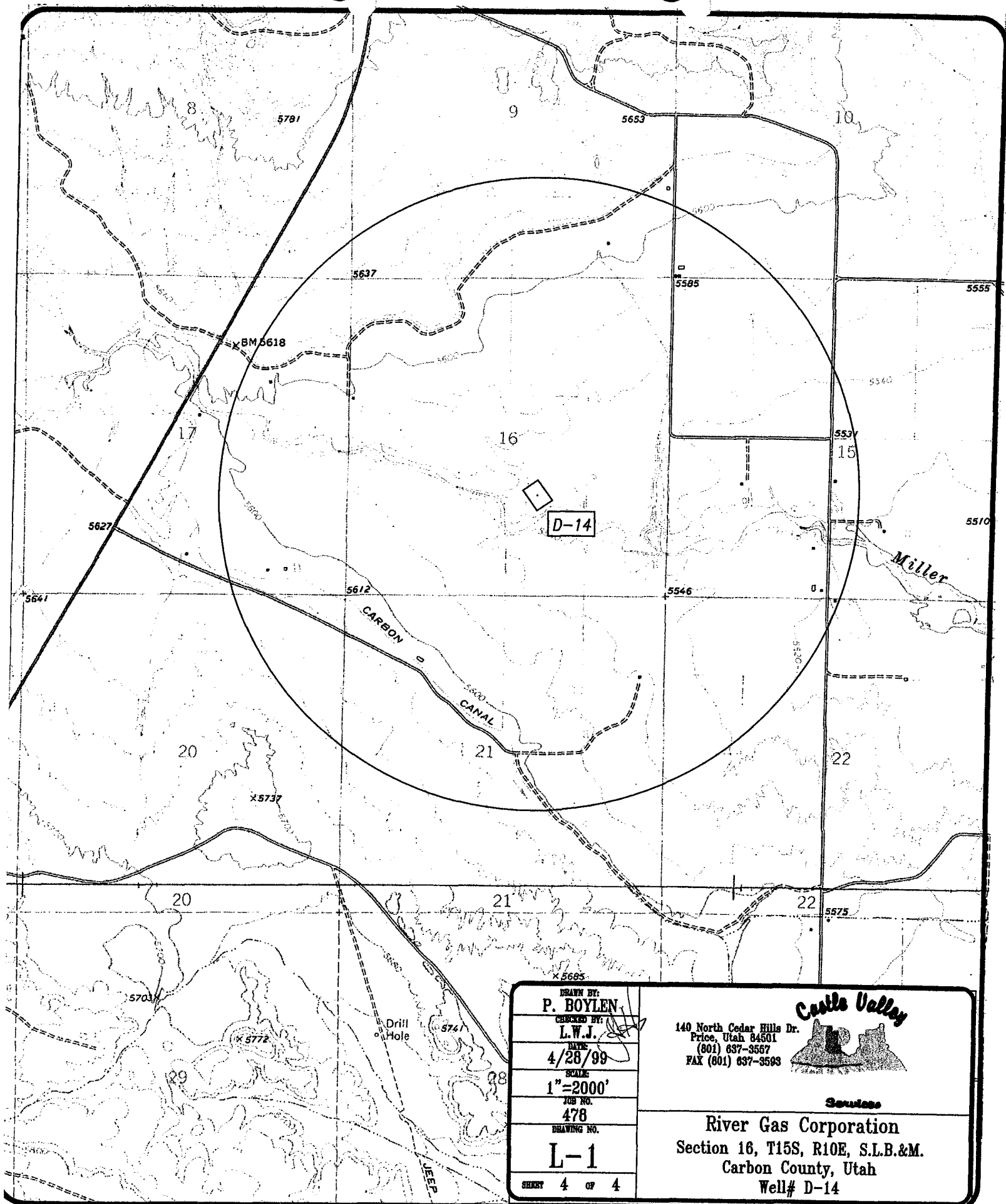


DRAWN BY:	P. BOYLEN
CHECKED BY:	L.W.J.
DATE:	4/28/99
SCALE:	1"=2000'
SHEET NO.:	478
PLANNING NO.:	L-1
SHEET	4 of 4


140 North Cedar Hills Dr.
 Price, Utah 84501
 (801) 637-3537
 FAX (801) 637-3593

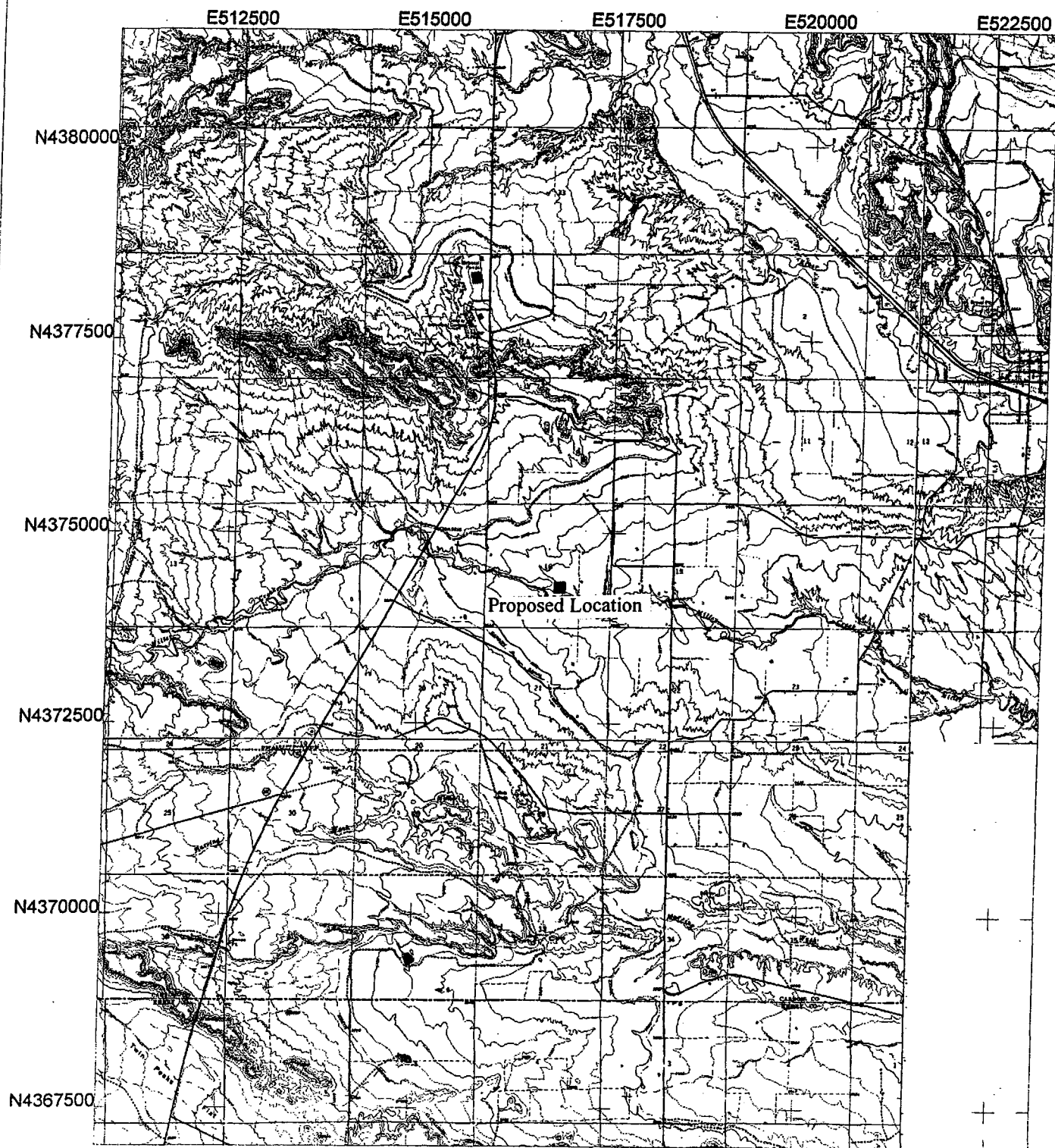


River Gas Corporation
 Section 16, T15S, R10E, S.L.B.&M.
 Carbon County, Utah
 Well# D-14



DRAWN BY:
P. BOYLEN
CHECKED BY:
L.W.J.
DATE:
4/28/99
SCALE:
1"=2000'
JOB NO.
478
DRAWING NO.
L-1
SHEET **4** OF **4**

Castle Valley
140 North Cedar Hills Dr.
Price, Utah 84501
(801) 637-3557
FAX (801) 637-3593

Sevens
River Gas Corporation
Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah
Well# D-14



Sampinos D-14

Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:75000
0 8000
Feet

Multiple Files
5/6/1999
Pathfinder Office™
Trimble

Statement Regarding Logs Performed on the Well

Logs compiled on the RGC D-14 well will be submitted to your office in the future.

done 7/15/2000
+
8/3/2000

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Description of the Casing Program

Conductor Casing Description:

20" 93#/ft, H-40, ST&C SMLS, installed from 0' to 60'.
Landed 3 joints of casing at 60'.

Surface Casing Description:

13-3/8" 48#/ft, H-40 ST&C SMLS, installed from 0' to 313.1'
400 sacks Class G, 2% CaCl + 1/4lb. Per sack D-29
15#/gal. Density and 1.15 cu. Ft./sack yield (displaced 40 bbls. Water).
(circulated 20 bbls. of cement to the surface).
Landed 7 joints of casing at 313.1'.

Intermediate Casing Description:

9-5/8" 36#/ft, K-55 LT&C SMLA, installed from 0' to 1540'.
275 sacks lead, 50/50 POZ (12.5#/gal. Density and 1.92 cu. ft/sk yield)
8% gel, 10% D44, 1/4lb. Per sack D-29, 2% S-1
90 sacks tail 10-1 RFC (14.2#/gal, 1.61 cu.ft/sack)
(displaced 117 bbls. of water)
(circulated 5 bbls. of cement to the surface).
Landed 35 joints of casing at 1540'.

Production Casing Description:

7" 23#/ft, N-80 and C-95 installed from 0' to 5466' K.B. 5453' G.L.
615 sacks 50/50 POZ (12.5#/gal. Density and 1.92 cu.ft/sack yield)
8% D-20, 10% D-44bwow0, 1/4lb. per sack D-29
390 sacks 10-1 RFC (14.2#/gal. Density and 1.61 cu.ft/sack yield).

Joint	Description	Length	G.L.
1	7" Float Shoe	1.68'	5453'
1	7" 26# J-55	29.69'	5451'
1	7" Float Collar	.90'	5450'
34	7" 26# J-55	1315.66'	4191'
1	7" Stage Cementing Collar	2.23'	4150'
148	7" 26# J-55	4150.00'	0'

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Description of Fluid Types

Water analysis compiled on the RGC D-14 well will be submitted to your office when they become available.

done 7/27/2000
and 8/3/2000

For D-14 only!
No analysis provided for
the D-3 pond water.
Only a statement that
the D-3 had 83 mg/l
TSS

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Statement of the Injection Pressures

The proposed average and maximum injection pressures will be submitted to your office when they become available.

proposed max. injection pressure = 2250 (UIC Form 1)
— this is changed to 1700 psig in John Hollingshead's sundry notice
mailing of 8/2/2000

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Statement of Geologic and Hydrologic Data

All available geologic and hydrologic data have been previously submitted or will be submitted to your office in the future.

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Statement of Affidavit

An affidavit certifying that a copy of the application has been provided to all owners within a one-half mile radius is currently being prepared and will be submitted to your office in the future.

*Done,
Reed. 7/27/2000*

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DIVISION OF
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R649-5-2. Requirements For Class II Injection Wells Including Water Disposal Storage And Enhanced Recovery Wells.

COMMENTS

1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- ✓ 2. The application for an injection well shall include a properly completed UIC Form 1 and the following:
 - ✓ 2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.
 - ✓ 2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.
 - ✓ 2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.
 - ✓ 2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.
 - ✓ 2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.
 - ✓ 2.6. A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.
 - OK 2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.
 - OK 2.8. The proposed average and maximum injection pressures.
 - ✓ 2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.
 - ✓ 2.10. Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.
 - ✓ 2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.
 - ✓ 2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.
 - 2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.

OK

OK map from Jean Sembler around 8/25/2000

OK sent 7/15 + 8/3/2000

OK

OK

OK

OK (No estimate but will be a function of pressure)

OK D3 injection water will be shared w/ D-14
(info rec'd. on 8/29/2000)

OK Average # wellbore 1700 psi

OK Stim-lab step rate Test analysis + stress log from Schlumberger

OK Terry Burns 7/13/2000 Geologic data mailing

OK John Hollingshead Review of 16-132 of 8/28/2000

OK Goscount mailing of 7/26/2000

Terry Burns
(205) 759-3282

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well

Footages:

1695' FSL, 2133' FEL

QQ, Sec., T., R., M.:

NW/SE SEC. 16, T15S, R10E, SLB & M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

Drunkards Wash UTU-67921X

8. Well Name and Number:

Sampinos D-14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Drunkards Wash

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other _____ Well Report | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See Attached

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13.

Name & Signature: Frankie Hathaway *Frankie Hathaway* Title: Administrative Assistant Date: 6/30/2000

(This space for state use only)

DRUNKARDS WASH PROJECT DAILY WELL REPORT

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SAMPINOS

D14

API NO: 43-007-30567

NWSE SEC: 16 TWN: 15S RNG: 10E
COUNTY: Carbon
ELEVATION: 5564
DRILLING CONTRACTOR: Cyclone Drilling

SPUD TIME/DATE: 5/5/2000 12:30:00 PM
TD TIME/DATE: 6/24/2000 1:30:00 PM
TD DEPTH: 5474
ON-LINE TIME/DATE:

Bit Information

Type	Size	In	Out	Hours	Rotating Hours
Tri-cone	12 1/4in	0.00	90.00	7	5
Tri-cone	24in	0.00	60.00	5	4
Air Hammer	17 1/2in	60.00	328.00	18	13
Air Hammer	12 1/4	313.00	1461.00	29	25.75
Tri-cone	12 1/4in	1462.00	1555.00	32.5	22

Conductor Casing

Bore Hole Size: 24in Conductor From: 0.00 To: 60.00
Casing Description: 20in p.e.pipe Number of Joints: 2 Set @: 60.00
Cement: Amount:
Cement Report:

Surface Casing

Bore Hole Size: 17.5in Surface Casing From: 60.00 To: 328.00
Casing Description: 13 3/8in 48#k-55 st&c Number of Joints: 7 Set @: 313.10
Cement: G + 2%S-1 + 1/4#/sk D-29 Amount: 400.00
Cement Report: r/updowell,safety meeting, test lines, pump 100bbl h2o spacer,10bbl gel pill, mix & pump 400sks G cement,displace w/40bbl h2o, close valve @ 9:45pm 5/7/00, 20 bbl cement to surface,

Production Casing

Bore Hole Size: 8 3/4in Prod.Casing From: 1540.00 To: 5474.00
Casing Description: 7in 23# n80 & c-95 Number of Joints: 148 Length: 5466.00
Lead Cement: 50/50 POZ, 8%D20, 10%D44, 2%S001, 1/4#/sk Amount: 615.00
D29
Tail Cement: 10-1 RFC Amount: 390.00
Cement Report: r/up dowell,safety meeting, test lines, pump 10bbl gel pill, 10bbl h2o spacer, mix & pump 65sks 50/50poz,130sks rfc, drop plug,displacew/h2o,drop bomb to open stage tool, circulate around (saw flakes on surface), circulate woc, start second stage,pump 10bbl h2o spacer, mix & pump 550 sks 50/50, 260 sks rfc, drop plug, displace w/ h2o, bump plug @ 1:42pm 6/26/00, 20 bbl cement to surface,

Float Equipment: Centralizers ran on:

Drilling Data**DAY 1 5/6/2000**

CURRENT DEPTH: 90 CURRENT OPERATIONS: drilling 12 1/4in pilot hole ROTATING HRS: 7.00
 7am-9am move Beeman on location, 9am-12pm r/up, 12pm-7pm p/up 12 1/4in tri-cone drill pilot hole to 90ft, pooh,

Estimated Daily Cost: [REDACTED]**DAY 2 5/7/2000**

CURRENT DEPTH: 150 CURRENT OPERATIONS: drilling 17 1/2in hole ROTATING HRS: 0.00
 7am-11am p/up 24in tri-cone, drill to 60ft, pooh, 11am-1pm rih w/ 60ft 20in conductor pipe, 1pm-1:30pm dump 5yards ready-mix cement behind conductor, 1:30pm-6pm woc, prep to drill 17 1/2in hole, 6pm-1am work on rig, p/up 17 1/2in hammer tih, 1am-7am drilling @ 150ft,

Estimated Daily Cost: [REDACTED]**DAY 3 5/8/2000**

CURRENT DEPTH: 328 CURRENT OPERATIONS: break loose cement head ROTATING HRS: 0.00
 7am-2pm drill 150-328ft, 2pm-3pm clean hole, 3pm-5:30pm pooh laying down collars, 5:30pm-6pm prep to run 13 3/8in casing, 6pm-8:30pm rih w/ 13 3/8in guide shoe + 7jts 13 3/8in casing land casing @ 313.10ft, 8:30pm-8:45pm r/up dowell, 9pm-9:45pm cement 13 3/8in surface casing, close valve @ 9:45pm 5/7/00, 20bbl cement to surface, 9:45pm-7am r/up blowie line, woc

Estimated Daily Cost: [REDACTED]**DAY 4 5/9/2000**

CURRENT DEPTH: 328 CURRENT OPERATIONS: n/up bop ROTATING HRS: 0.00
 7am-8am remove cement head, start to n/up bop, location very muddy could not get around w/ equipment, tearing up location, 8am-7am s/down f/ location to dry

Estimated Daily Cost: [REDACTED]**DAY 5 5/10/2000**

CURRENT DEPTH: 400 CURRENT OPERATIONS: drilling 12 1/4in hole @ 400ft ROTATING HRS: 4.25
 7am-6pm n/up bop & manifold, run blowie line, 6pm-7pm r/up tester, 7pm-8pm retighten flange bolts, 8pm-9pm test bop, manifold & casing, 9pm-1:30am break down hammer, p/up new hammer, 1:30am-2:45am tih, tag cement @ 240ft, 2:45am-4am drill out cement, 4am-7am drill 12 1/4in hole to 400ft

Estimated Daily Cost: [REDACTED]**DAY 6 5/11/2000**

CURRENT DEPTH: 1492 CURRENT OPERATIONS: prep to mud up ROTATING HRS: 0.00
 7am-7pm drill 400ft-1050ft, 7pm-4:30am drill 1050ft-1492ft, hole sloughing in on hammer, 4:30am-7am p/up & prep to mud up hole,

Estimated Daily Cost: [REDACTED]**DAY 7 5/12/2000**

CURRENT DEPTH: 1462 CURRENT OPERATIONS: drilling @ 1462 ROTATING HRS: 4.50
 7am-12pm r/up lines & wait on mud equipment to arrive, 12pm-5pm set mud equipment, 5pm-8pm mix mud, 8pm-10:30pm tooh to change bit, 10:30pm-2:30am change bit rih, 2:30am-6:30am tag 90ft fill mix tub of mud, 6:30am-7am drilling on new hole @ 1462

Estimated Daily Cost: [REDACTED]**DAY 8 5/13/2000**

CURRENT DEPTH: 1555 CURRENT OPERATIONS: tooh ROTATING HRS: 17.5
 7am-10am drill 12 1/4in hole 1462-1472ft, (pump acting up low pump pressure), 10am-2pm drill 1472-1493ft (pump working better), 2pm-4pm drill 1493-1508ft working on pump, 4pm-7pm drill 1508-1520ft, 7pm-11pm drill 1520-1535ft, 11pm-11:30pm work on packing, 11:30pm-1am drill 1535-1555ft, 1am-2am circulate on bottom, 2am-4am short trip to 1000ft, 4am-4:30am work on packing, 4:30am-5:30am circulate on bottom 5:30am-7am tooh

Estimated Daily Cost: [REDACTED]

DAY 9 5/14/2000

CURRENT DEPTH: 1555 CURRENT OPERATIONS: woc

ROTATING HRS: 0.00

7am-10am finish tooth laying down pipe, & collars, 10am-10:30am r/up loggers, 10:30am-12pm log well, 12pm-12:30pm r/down loggers, 12:30pm-1pm r/up casing crew, 1pm-1:30pm float shoe cracked wait on another, 1:30pm-5:30pm p/up 9 5/8in float shoe, 1jt 9 5/8in csg, 9 5/8in float collar, + 34 jts 9 5/8in csg, rih land casing @ 1542ft g.l., 5:30pm-6:30pm r/up dowell, 6:30pm-7:35pm cement intermediate casing, bump plug @ 7:35pm 5/13/00, 6bbl good cement to surface, 7:35pm-7am woc,

Estimated Daily Cost:**DAY 10 5/15/2000**

CURRENT DEPTH: 1555 CURRENT OPERATIONS: n/down bop

ROTATING HRS: 0.00

7am-3pm n/down bop, r/down, start moving to d-9, 3pm-7am s/down

Estimated Daily Cost:**DAY 11 5/16/2000**

CURRENT DEPTH: 1555 CURRENT OPERATIONS: no activity

ROTATING HRS: 0.00

7am-7am no activity

Estimated Daily Cost:**DAY 12 5/26/2000**

CURRENT DEPTH: 1555 CURRENT OPERATIONS: prep f/cyclone

ROTATING HRS: 0.00

7am-7pm prep f/ cyclone , cut off casing & weld on casing head,

Estimated Daily Cost:**DAY 13 6/6/2000**

CURRENT DEPTH: 1540 CURRENT OPERATIONS: r/up cyclonerig#12

ROTATING HRS: 0.00

7am-7pm move cyclone rig #12 on location, start r/up,

Estimated Daily Cost:**DAY 14 6/7/2000**

CURRENT DEPTH: 1540 CURRENT OPERATIONS:

ROTATING HRS: 0.00

7am-1pm r/up rig, 1pm-6:30pm n/up bop, manifold, & flow lines, 6:30pm-7:30pm test kelly, 7:30pm-9:30pm drill rathole & mouse hole, 9:30pm-1am test bop, manifold & casing, 1am-4am mousehole binding redrill, 4am-7am tally drill collars & rih w/ 8 3/4in smith f3h s# lr4300, bit sub, bit saver, +21 5 3/4in drill collars,

Estimated Daily Cost:**DAY 15 6/8/2000**

CURRENT DEPTH: 1800 CURRENT OPERATIONS: drilling 8 3/4in hole @ 1800ft

ROTATING HRS: 13.0

7am-1:30pm p/up drill pipe tih, tag @ 1543ft, 1:30pm-7pm circulate & mix mud (wt.8.5, visc.43), drill thru float collar, 7pm-10:15pm drill out cement, 10:15pm-11pm drill out float shoe, 11pm-4am drill 8 3/4in hole 1743ft, 4am-4:30am service rig, 4:30am-7am drill 1743-1800ft (visc.48, mud wt. 8.6, f.l. 7.2)

Estimated Daily Cost:**DAY 16 6/9/2000**

CURRENT DEPTH: 2178 CURRENT OPERATIONS: drilling 8 3/4in hole @ 2190ft

ROTATING HRS: 22.7

7am-11:30am drill 1800-1899ft, 11:30am-12pm drop survey, 1.5deg @ 1855ft, 12pm-5pm drill 1899-1983ft, 5pm-7pm 1983-2010ft, 7pm-3:15am drill 2010-2146ft, 3:15am-3:30am service rig, 3:30am-4am drop survey 2.75deg. (back off weight to 25-27), 4am-7am drill 2146-2178ft, mud wt.8.8ppg, viscosity 46, yield 10, f.l. 8.4, wt on bit 25-27, rpm 60, pump psi 750, (should go into morrisson around 2245)

Estimated Daily Cost:

DAY 17 6/10/2000

CURRENT DEPTH: 2398 CURRENT OPERATIONS: drilling @ 2398 ROTATING HRS: 23.0

7am-10am drill 2177-2208ft, 10am-10:15am service rig, check bop, 10:15am-7pm drill 2208-2317ft, 7pm-1:15am drill 2317-2357ft, p/up pump pressure to 950psi, 1:15am-1:30am service rig, 1:30am-2am drop survey 2deg @ 2320ft, 2am-7am drill 2357-2398ft, rpm 52, (pump psi 950, visc43, mud wt 8.8, fluid loss 8.2, solids 3%),

Estimated Daily Cost:**DAY 18 6/11/2000**

CURRENT DEPTH: 2566 CURRENT OPERATIONS: drilling @ 2566ft ROTATING HRS: 23.5

7am-9:30am drill 2398-2420ft, 9:30am-9:45am service rig & check bop, 9:45am-7pm drill 2420-2495ft, 7pm-11pm drill 2495-2517ft, 11pm-3:30am drill 2517-2545ft, 3:30am-3:45am service rig, 3:45am-7am drill 2545-2566ft, wt on bit 32,000, pump psi 950-1000#, rpm 55, visc 45, mud wt 8.8, fl 8

Estimated Daily Cost:**DAY 19 6/12/2000**

CURRENT DEPTH: 2688 CURRENT OPERATIONS: tripping in hole ROTATING HRS: 16.0

7am-12:45pm drill 2566-2605ft, 12:45pm-1pm take survey 2 1/2deg @ 2561ft, 1pm-1:15pm service rig, 1:15pm-6pm drill 2605-2649ft, 6pm-11pm drill 2649-2688ft, 11pm-11:15pm drop survey, prep to tooh, 11:15pm-1:30am tooh, 1:30am-2am check bop, look @ old bit, 2am-3:30am tih w/ drill collars, 3:30am-4:30am unplug collars, 4:30am-5:30am p/up more collars, 5:30am-6:30am cut drill line, 6:30am-7am tih w/drill pipe,

Estimated Daily Cost:**DAY 20 6/13/2000**

CURRENT DEPTH: 2864 CURRENT OPERATIONS: drilling @ 2864ft ROTATING HRS: 22.5

7am-8am ream last 90ft to bottom 4ft fill, adjust depth, one jt off before tallying out actual depth 2658 , 8am-10:45am drill 2658-2686ft, 10:45am-11am service rig, 11am-1:30pm drill 2686-2712ft, 1:30pm-7pm drill 2712-2770ft into summerville formation, 7pm-10pm drill 2770-2794, 10pm-3:45am drill 2794-2841ft, 3:45am-4am service rig, 4am-7am drill 2841-2864ft, (mud wt 8.7, visc 51, fl 10.1, wt on bit 37-38000, rpm 60-62, pump psi 1050-1100

Estimated Daily Cost:**DAY 21 6/14/2000**

CURRENT DEPTH: 3115 CURRENT OPERATIONS: drilling @ 3115 ROTATING HRS: 23.2

7am-10:45am drill 2864-2900ft, 10:45am-11am drop survey 3 1/4deg @ 2856ft, back off wt, 11am-5pm drill 2900-2962ft, 5pm-5:15pm service rig, 5:15pm service rig, 5:15pm-7pm drill 2962-2980, 7pm-1:30am drill-2980-3055ft, 1:30am-1:45am service rig, 1:45am-7am drill 3055-3113, visc 44, mud wt 8.7, fl 8.8, wt on bit 32000, rpm 66, pump psi 1150

Estimated Daily Cost:**DAY 22 6/15/2000**

CURRENT DEPTH: 3373 CURRENT OPERATIONS: drilling @ 3373 ft ROTATING HRS: 23.5

7am-10am drill 3115-3149, 10am-10:15am drop survey, 1deg @ 3105ft, 10:15am-1:30pm drill 3149-3181, 1:30pm-7pm drill 3181-3237ft, 7pm-10:30pm drill 3237-3269ft, 10:30pm-7am drill 3269-3373, mud wt 8.9-9#, visc 47, f loss 9, wt on bit 36-38000#, rpm 66, pump psi 1150-1200

Estimated Daily Cost:**DAY 23 6/16/2000**

CURRENT DEPTH: 3567 CURRENT OPERATIONS: drilling @ 3567ft ROTATING HRS: 23.0

7am-9:30am drill 3373-3401, 9:30am-10am drop survey 1deg @ 3361, 10am-12:30pm drill 3401-3422ft, 12:30pm-1:30pm drill 3422-3431ft, 1:30pm-2pm service rig, 2pm-7pm drill 3431-3469ft, 7pm-10:30pm drill 369-3498ft, 10:30am-7am drill 3498-3567ft, mud wt 8.9, visc 45, f loss 8.2, wton bit 36-40000, rpm 64-66, pump psi 1100-1200

Estimated Daily Cost:

DAY 24 6/17/2000

CURRENT DEPTH: 3738 CURRENT OPERATIONS: drilling @ 3738ft ROTATING HRS: 23.5
 7am-1:45pm drill 3567-3620ft, 1:45pm-2pm service rig, 2pm-7pm drill 3620-3658ft, 7pm-3am drill 3658-3712ft,
 3am-3:15am service rig, 3:15am-7am drill 3712-3738ft, mud wt 9.0, visc 44, fl 7.2, wt on bit 40000, pump psi
 1150#

Estimated Daily Cost:**DAY 25 6/18/2000**

CURRENT DEPTH: 3875 CURRENT OPERATIONS: drilling @ 3875ft ROTATING HRS: 12.0
 7am-11:30am drill 3738-3770ft, 11:30am-11:45am drop survey 1deg @ 3730ft, 11:45am-2pm tooh f/bit, tight hole
 @ 1870-1720ft, 2pm-2:15pm service rig & check bop, 2:15pm-3:15pm p/up new 8 3/4 bit f4 s# LX5141, tih w/ drill
 collars added 3 more collars, 3:15pm-4:15pm clean suction tanks, 4:15pm-4:30pm tih, 4:30pm-5:30pm wash &
 ream 1750-1880ft, 5:30pm-5:45pm tih, 5:45pm-6pm wash & ream 2030-2090ft, 6pm-7pm tih, wash & ream last
 70ft, (42ft fill), 7pm-2:30am drill 3770-3828ft, 2:30am-2:45am service rig, 2:45am-7am drill 3828-3875ft,

Estimated Daily Cost:**DAY 26 6/19/2000**

CURRENT DEPTH: 4084 CURRENT OPERATIONS: drilling @ 4084ft ROTATING HRS: 23.5
 7am-12:45pm drill 3875-3921ft, 12:45pm-1pm service rig, 1pm-7pm drill 3921-3972ft, 7pm-2:30am drill
 3972-4046ft, 2:30am-2:45am service rig, 2:45am-7am drill 4046-4084ft, (mud wt 9#, visc 45, f loss 7.8, wt on bit
 42-45000, rpm 66, pump psi 1150,)

Estimated Daily Cost:**DAY 27 6/20/2000**

CURRENT DEPTH: 4212 CURRENT OPERATIONS: drilling @ 4212ft ROTATING HRS: 22.2
 7am-12:15pm drill 4084-4141ft, 12:15pm-12:30pm service rig, 12:30pm-2:30pm drill 4141-4164ft, 2:30pm-7pm drill
 4164-4209ft, 7pm-9pm drill 4209-4224ft, 9pm-10pm change out rotary chain, 10pm-11pm drill 4224-4234ft,
 11pm-5am drill 4234-4297, hit drilling break 4280, 5am-5:30am take survey 1 1/4deg @ 4270, 5:30am-7am drill
 4297-4312
 mud wt 9#, visc 42, floss 8, wt on bit 40-45000, rpm 66, pump psi 1150# (note: adjusted cost of daywork on this
 report)

Estimated Daily Cost:**DAY 28 6/21/2000**

CURRENT DEPTH: 4525 CURRENT OPERATIONS: drilling @ 4525ft ROTATING HRS: 23.2
 7am-3:45pm drill 4312-4391ft, 3:45pm-4pm service rig, check bop, 4pm-7pm drill 4391-4422ft, 7pm-2am drill
 4422-4483ft, 2am-2:30am service rig, 2:30am-7am drill 4483-4525ft

Estimated Daily Cost:**DAY 29 6/22/2000**

CURRENT DEPTH: 4957 CURRENT OPERATIONS: drilling @ 4957ft ROTATING HRS: 23.0
 7am-12:15pm drill 4525-4575ft, 12:15pm-12:30pm service rig, 12:30pm-6pm drill 4575-4713ft, (est top of navajo
 4575ft), unload 3 loads of 7in csg (n-80 & c-95 mixed 23# range 2 & 3), 6pm-10:30pm drill 4713-4791ft,
 10:30pm-11pm drop survey 1 1/4deg @ 4747ft, 11pm-12am drill 4791-4822ft, 12am-12:15am service rig,
 12:15am-7am drill 4822-4957ft, (mud wt. 9.3+, visc 44, f loss 9, wt on bit 44-46000, rpm 66, pump psi 1250

Estimated Daily Cost:**DAY 30 6/23/2000**

CURRENT DEPTH: 5250 CURRENT OPERATIONS: drilling @ 5250ft ROTATING HRS: 23.0
 7am-1pm drill 4957-5010ft, 1pm-1:15pm service rig, 1:15pm-7pm drill 5010-5110ft, 7pm-9:45pm drill 5110-5154ft,
 9:45pm-10:15pm service rig, check bop, 10:15pm-10:30pm #2 pump aired up, 10:30pm-7am drill 5154-5250ft
 mud wt 9.1ppg, visc 42, floss 8.2, wt on bit 44-45000, rpm 66, pump psi 1250

Estimated Daily Cost:

DAY 31 6/24/2000

CURRENT DEPTH: 5421 CURRENT OPERATIONS: drilling @ 5421ft ROTATING HRS: 16.5
 7am-1pm drill 5250-5321, 1pm-1:15pm drop survey 1deg @ 5277ft, 1:15pm-4:15pm tooh f/bit, 4:15pm-4:45pm
 check bop, 4:45pm-5:15pm service rig, 5:15pm-7pm p/up bit 8 3/4in smith f4 sn# LX6691, jetted w/ 12,13,12,
 7pm-8pm finish tih, 8pm-8:30pm wash last 60ft to bottom (6ft fill), 8:30pm-2am drill 5321-5384ft, 2am-2:15am
 service rig, 2:15am-7am drill 5384-5421ft (mud wt 9.2ppg, visc 48, f loss 6.4, wt on bit 40-45000, rpm 66, pump
 psi 1250,

Estimated Daily Cost: [REDACTED]**DAY 32 6/25/2000**

CURRENT DEPTH: 5474 CURRENT OPERATIONS: tih w/ drill pipe ROTATING HRS: 6.50
 7am-1:30pm drill 5421-5474ft, td @ 5474 @ 1:30pm 6/24/00, 1:30pm-3:30pm circulate on bottom, conditioning
 mud, 3:30pm-5:45pm short trip to 2375ft, back to bottom no fill, 5:45pm-7:45pm circulate on bottom, pump gel
 sweep, 7:45pm-10:30pm tooh to log, 10:30pm-11pm r/up loggers, 11pm-6am log well, 6am-6:30am r/down
 loggers, 6:30am-7am start tih,

Estimated Daily Cost: [REDACTED]**DAY 33 6/26/2000**

CURRENT DEPTH: 5474 CURRENT OPERATIONS: circulating ROTATING HRS: 0.00
 7am-9am finish tih, no fill, 9am-11:30am circulate on bottom, 11:30am-12:30pm r/up lay down machine,
 12:30pm-5pm pooh laying down drill pipe & drill collars, 5pm-6pm n/down rotating head & extension, 6pm-6:30pm
 r/up casing crew, 6:30pm-11pm rih w/ 7in float shoe, float collar, +148jts 7in csg, land csg @ 5453ft,
 11pm-12am r/up dowell & circulate, r/down casing crew, 12am-1:10am cement first stage, bump plug @ 1:10am
 6/26/00, 1:10am-1:35am drop bomd to open stage tool, 1:35am-7am circulate hole,

Estimated Daily Cost: [REDACTED]**DAY 34 6/27/2000**

CURRENT DEPTH: 5474 CURRENT OPERATIONS: moving off location ROTATING HRS: 0.00
 7am-12pm woc, 12pm-1:45pm cement second stage, bump plug @ 1:42pm 6/26/00, 20bbl cement to
 surface, 1:45pm-3pm r/down dowell, n/down bop, 3pm-4pm set casing slips & cut off casing, 4pm-5:30pm clean
 mud tanks, release rig @ 5:30pm 6/26/00, 5:30pm-7am r/down & prep to move,

Estimated Daily Cost: [REDACTED]**DAY 35 6/28/2000**

CURRENT DEPTH: 5474 CURRENT OPERATIONS: r/up to drill out stage tool ROTATING HRS: 0.00
 7am-7pm r/down & move off location,

Estimated Daily Cost: [REDACTED]**DAY 36 6/29/2000**

CURRENT DEPTH: 5474 CURRENT OPERATIONS: drill out dv tool ROTATING HRS: 0.00
 road rig to location, had backhoe clean up around well head, spot rig waited on casing to be cut (6 hrs.) nipped
 up bop moved drill colars nipped up change over flange picked up 6 1/8 bit drill colars & 121 jts. Of 2 7/8 shut
 down for night.

Estimated Daily Cost: [REDACTED]

Cum. Estimated Daily Cost:

\$

Frac Data

Completion Data



RIVER GAS CORPORATION

UTAH OPERATIONS
6825 South 5300 West
P.O. Box 851
Price, Utah 84501
Bus. (435) 613-9777
FAX (435) 613-9782

June 30, 2000

Mr. Gil Hunt
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Application for Injection Well: RGC D-14
NW1/4SE1/4 Section 16, T15S, R10E, SLB&M
Carbon County, Utah

Dear Mr. Hunt:

Enclosed please find the original of the Application for Injection Well for the above name well, D-14.
Included with the UIC Form 1 is the following information:

- Exhibit "A" - Survey Plat of the Proposed Well Site;
- Exhibit "B" - Maps Depicting Nearby Wells and Land Ownership;
- Exhibit "C" - Statement Regarding Logs Performed on the Well;
- Exhibit "D" - Description of the Casing Program;
- Exhibit "E" - Description of the Fluid Types;
- Exhibit "F" - Statement of the Injection Pressures;
- Exhibit "G" - Statement of Geologic and Hydrologic Data;
- Exhibit "H" - Statement of Affidavit;

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JUL 06 2000

DIVISION OF
OIL, GAS AND MINING

Mr. Gil Hunt
June 30, 2000
Page Two

Thank you for your timely consideration of this application. Please feel free to contact me if you have any questions or find any deficiencies.

Sincerely,

A handwritten signature in black ink, appearing to read "Callen Hurtt", with a stylized flourish at the end.

Callen Hurtt
Development Manager

cc: Mr. John Baza, UDOGM
Mr. Chuck Snure, Texaco
Mr. Gee Lake, Jr., Dominion Resources
Mr. Greg Mueller, RGC
Mr. Joey Stephenson, RGC
Mr. John Hollingshead, RGC
RCG Well File – RGC D-14

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DIVISION OF
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APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR RIVER GAS CORPORATION
ADDRESS P.O. BOX 851
PRICE, UT 84501

Well name and number: RGC D-14

Field or Unit name: UNDESIGNATED Lease no. FEE

Well location: QQ NW/4 SE/4 section 16 township 15 range 10 county CARBON

Is this application for expansion of an existing project? . . Yes ☒ No ☐

Will the proposed well be used for: Enhanced Recovery? . . Yes ☐ No ☒
Disposal? Yes ☒ No ☐
Storage? Yes ☐ No ☒

Is this application for a new well to be drilled? Yes ☐ No ☒

If this application is for an existing well,
has a casing test been performed on the well? Yes ☒ No ☐

Date of test: _____
API number: 43-007-30567

Proposed injection interval: from 4558 to 5281 ¹⁷⁰⁰

Proposed maximum injection: rate 5 BPM pressure 2250 psig

Proposed injection zone contains ☐ oil, ☐ gas, and/or ☐ fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: _____

I certify that this report is true and complete to the best of my knowledge.

Name CALEN HURT Signature Calen Hurt
Title DEVELOPMENT MANAGER Date 6/27/00
Phone No. (435) 613-9777

(State use only)
Application approved by _____ Title _____
Approval Date _____

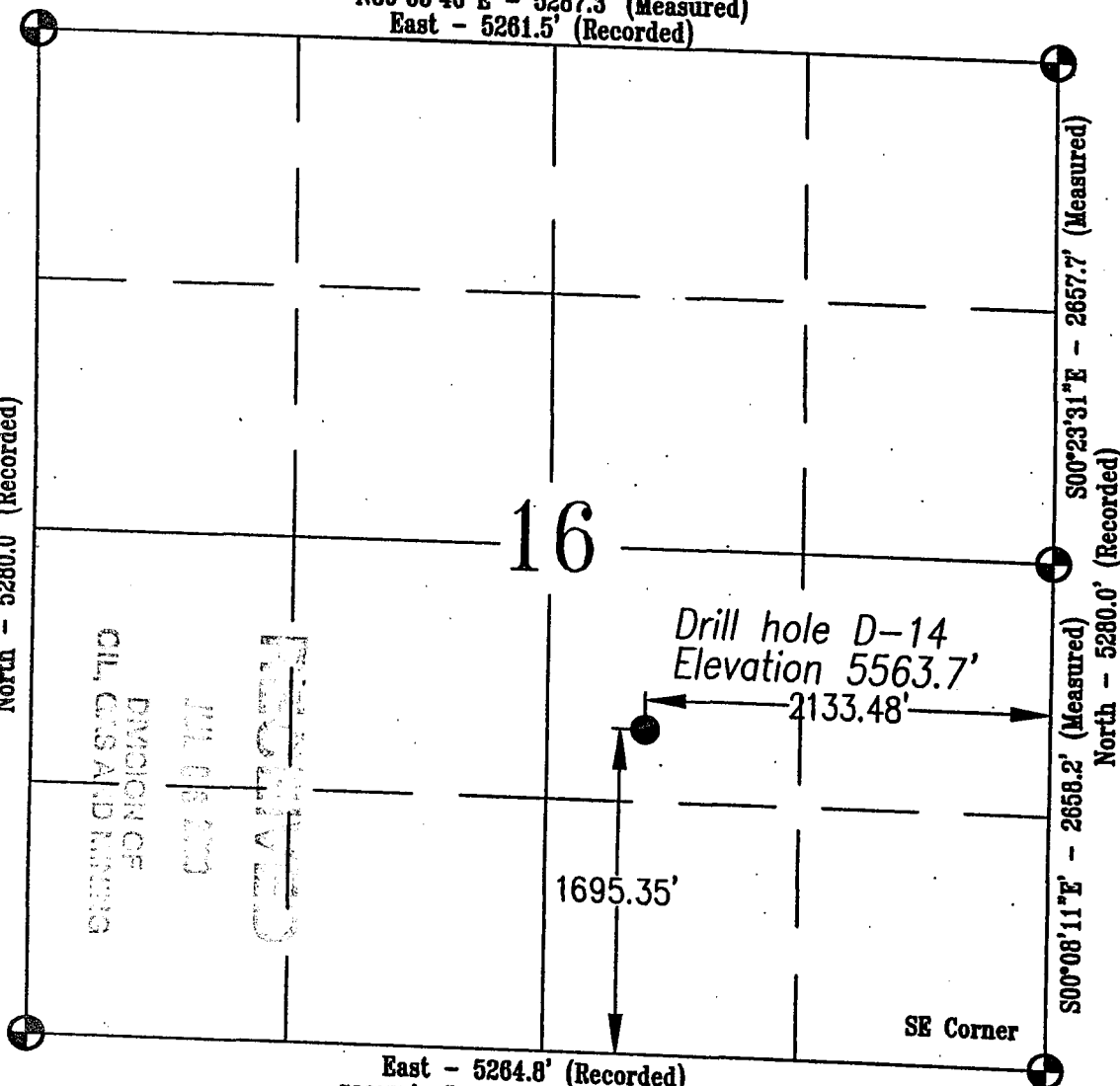
Comments:

Township 15 South

N00°01'40"E - 5315.57' (Measured)
North - 5280.0' (Recorded)

Range 10 East

N89°55'46"E - 5287.3' (Measured)
East - 5261.5' (Recorded)



LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found

SCALE:

250' 0' 500' 1000'



Location

The Bearings Indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

Basis Of Elevation:

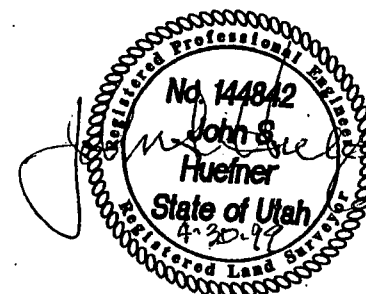
Basis of Elevation of 5612' as indicated in the SW Corner of Section 16, Township 15 South, Range 10 East, Salt Lake Base and Meridian, as shown on the Price Quadrangle 7.5 Minute Series Map.

Description of Well Point

Proposed Drill Hole located in the NW 1/4 SE 1/4 of Section 16; 1695.35' North and 2133.48' West from the SE Corner of Section 16, T15S, R10E, Salt Lake Base & Meridian.

Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



DEATH BY:	P. BOYLEN
CHECKED BY:	J.S.H.
DATE:	4/28/99
SCALE:	1"=1000'
AS NO.	479
DRAWING NO.	A-1

3200 South 125 West
Price, Utah 84501
(801) 637-8300
FAX (801) 637-2833



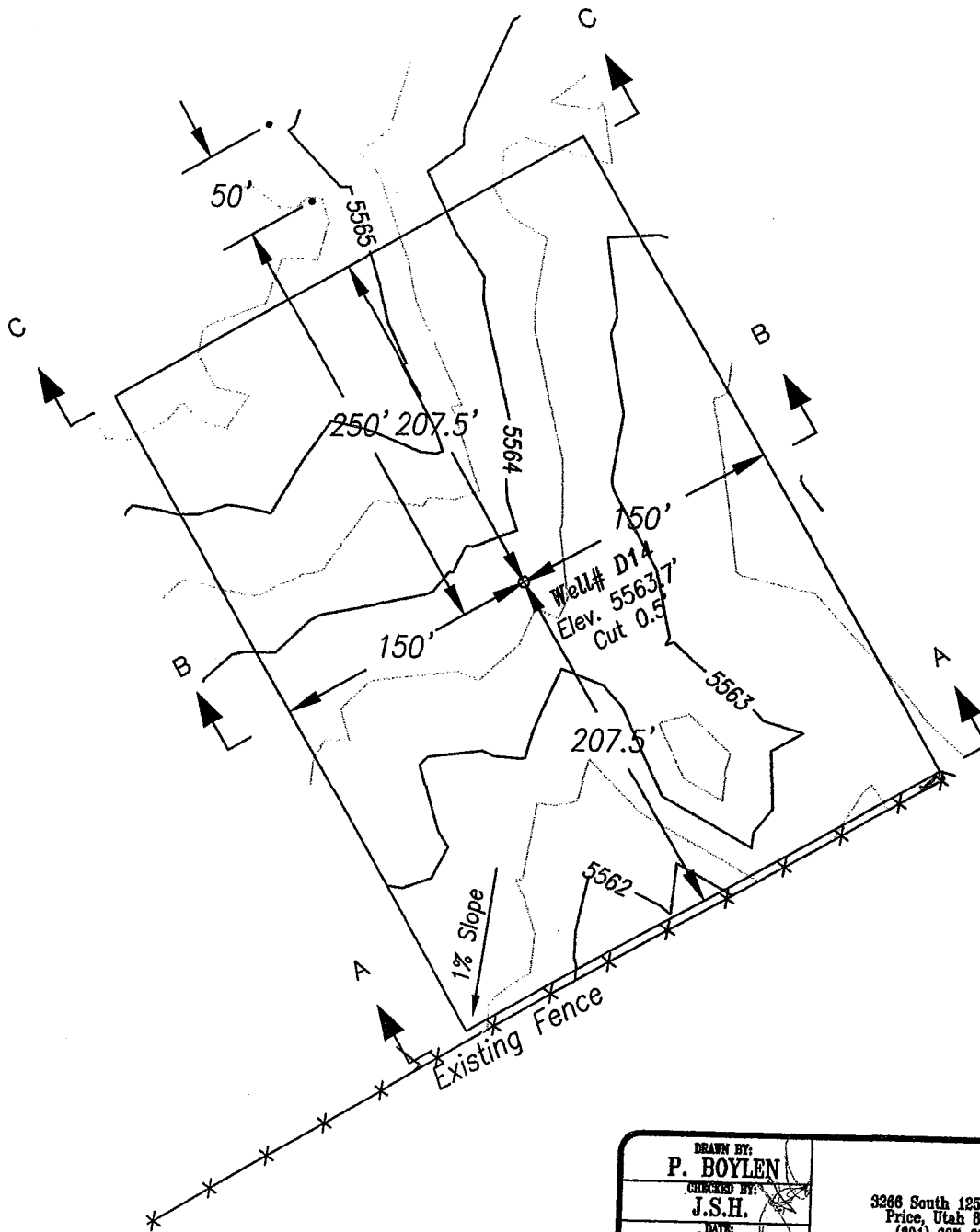
Services

River Gas Corporation
Well# D-14
Section 16, T15S, R10E, S.L.B.&M.

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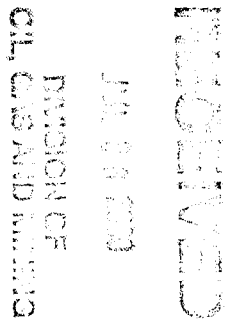
JUL 06 2000

DIVISION OF
CIVIL, OILS AND MINING




Elevation Ungraded Ground at Location Stake = 5563.7'
Elevation Graded Ground at Location Stake = 5563.2'

DRAWN BY: P. BOYLEN		 Castle Valley 3286 South 125 West Price, Utah 84501 (801) 637-9300 FAX (801) 637-2833
CHECKED BY: J.S.H.		
DATE: 4/28/99		
SCALE: 1"=100'		
JOB NO. 478		
DRAWING NO. A-2		Services River Gas Corporation Location Layout Section 16, T16S, R10E, S.L.B.&M. Well# D-14
SHEET 2 OF 4		



<i>CUT</i>	
<i>(6") Topsoil Stripping</i>	<i>= 1265.0 Cu. Yds.</i>
<i>Remaining Location</i>	<i>= 1,783.3 Cu. Yds.</i>
<i>TOTAL CUT</i>	<i>= 3,048.3 Cu. Yds.</i>
<i>TOTAL FILL</i>	<i>= 778.1 Cu. Yds.</i>

DRAWN BY: P. BOYLEN	
CHECKED BY: J.S.H.	
DATE: 4/29/99	
SCALE: As Shown	
JOB NO. 478	

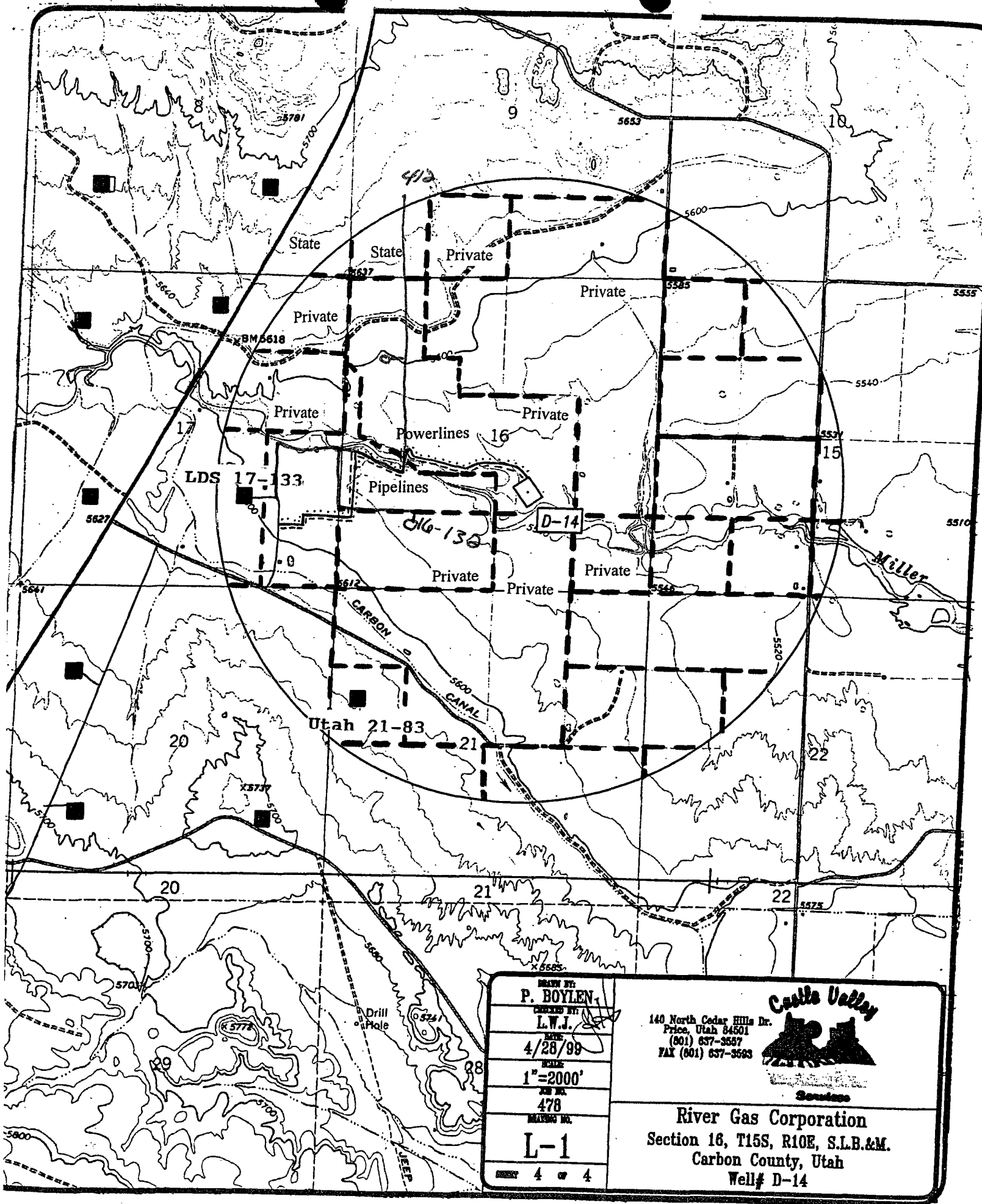
DRAWING NO.
C-1

SHEET **3** OF **4**

3266 South 125 West
Price, Utah 84501
(801) 637-9300
FAX (801) 637-2833

Sevens

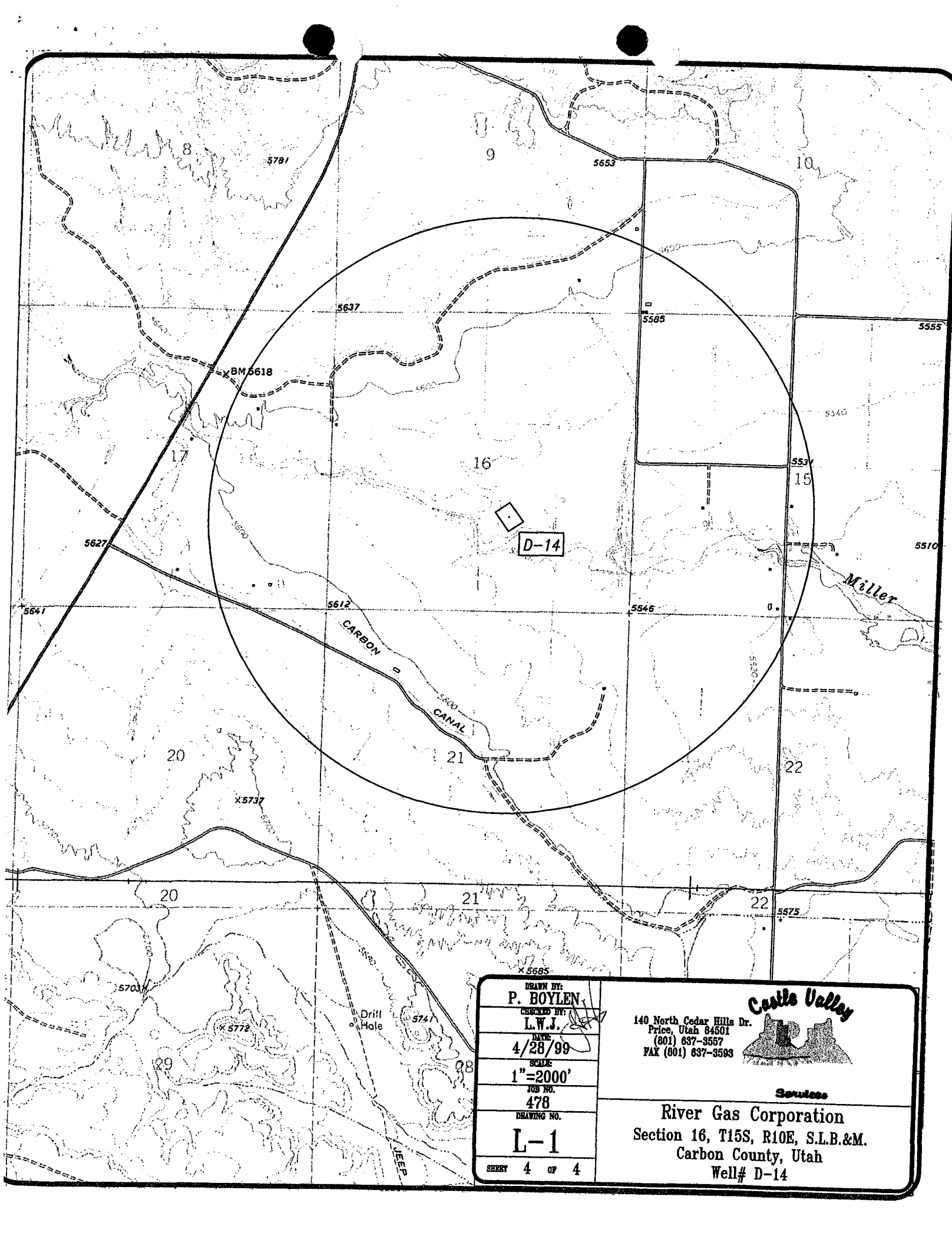
River Gas Corporation
Typical Cross Sections
Section 16, T15S, R10E, S.L.B&M.
Well# D-14




4 2 4

Sondage

River Gas Corporation
Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah
Well# D-14



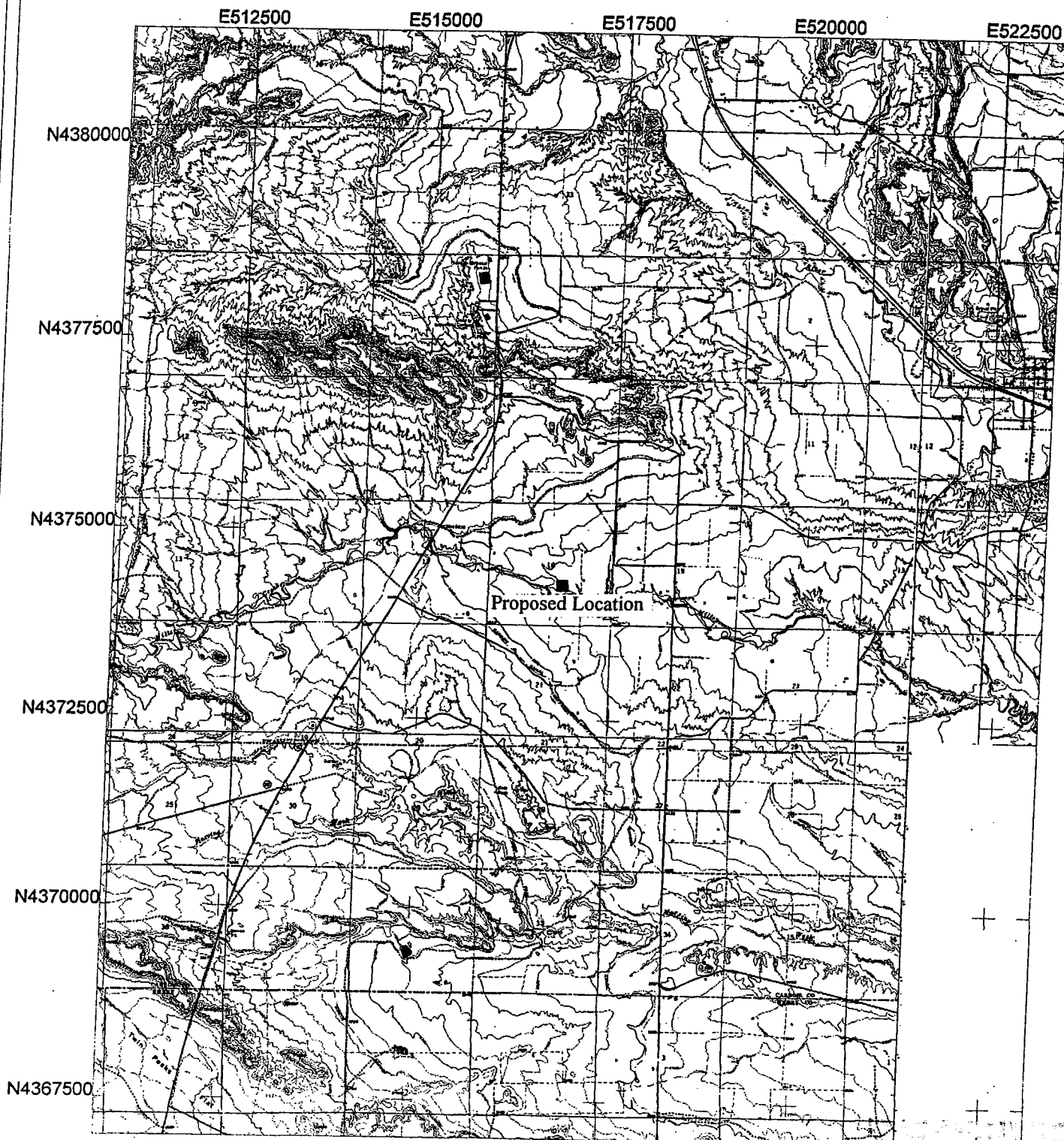
DRAWN BY: P. BOYLEN	
CHECKED BY: L.W.J.	
DATE: 4/28/99	
SCALE: 1"=2000'	
JOB NO. 478	
DRAWING NO. L-1	
SHEET	4 OF 4



Castle Valley
140 North Cedar Hills Dr.
Price, Utah 84501
(801) 637-3557
FAX (801) 637-3593

Service

River Gas Corporation
Section 16, T15S, R10E, S.L.B.&M.
Carbon County, Utah
Well# D-14



Sampinos D-14

JUL 14 1999

DIVISION OF
OIL, GAS AND MINING

Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:75000

0 8000

Feet

Multiple Files

5/6/1999

Pathfinder Office™

 Trimble

Statement Regarding Logs Performed on the Well

Logs compiled on the RGC D-14 well will be submitted to your office in the future.

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Description of the Casing Program

Conductor Casing Description:

20" 93#/ft, H-40, ST&C SMLS, installed from 0' to 60'.
Landed 3 joints of casing at 60'.

Surface Casing Description:

13-3/8" 48#/ft, H-40 ST&C SMLS, installed from 0' to 313.1'
400 sacks Class G, 2% CaCl + 1/4lb. Per sack D-29
15#/gal. Density and 1.15 cu. Ft./sack yield (displaced 40 bbls. Water).
(circulated 20 bbls. of cement to the surface).
Landed 7 joints of casing at 313.1'.

Intermediate Casing Description:

9-5/8" 36#/ft, K-55 LT&C SMLA, installed from 0' to 1540'.
275 sacks lead, 50/50 POZ (12.5#/gal. Density and 1.92 cu. ft/sk yield)
8% gel, 10% D44, 1/4lb. Per sack D-29, 2% S-1
90 sacks tail 10-1 RFC (14.2#/gal, 1.61 cu.ft/sack)
(displaced 117 bbls. of water)
(circulated 5 bbls. of cement to the surface).
Landed 35 joints of casing at 1540'.

Production Casing Description:

7" 23#/ft, N-80 and C-95 installed from 0' to 5466' K.B. 5453' G.L.
615 sacks 50/50 POZ (12.5#/gal. Density and 1.92 cu.ft/sack yield)
8% D-20, 10% D-44bwow0, 1/4 lb. per sack D-29
390 sacks 10-1 RFC (14.2#/gal. Density and 1.61 cu.ft/sack yield).

Joint	Description	Length	G.L.
1	7" Float Shoe	1.68'	5453'
1	7" 26# J-55	29.69'	5451'
1	7" Float Collar	.90'	5450'
34	7" 26# J-55	1315.66'	4191'
1	7" Stage Cementing Collar	2.23'	4150'
148	7" 26# J-55	4150.00'	0'

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OIL, GAS AND MINES

Description of Fluid Types

Water analysis compiled on the RGC D-14 well will be submitted to your office when they become available.

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JUL 18 1968

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Statement of the Injection Pressures

The proposed average and maximum injection pressures will be submitted to your office when they become available.

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MAY 1963

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Statement of Geologic and Hydrologic Data

All available geologic and hydrologic data have been previously submitted or will be submitted to your office in the future.

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APR 19 1960

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Statement of Affidavit

An affidavit certifying that a copy of the application has been provided to all owners within a one-half mile radius is currently being prepared and will be submitted to your office in the future.

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JUL 15 1960
DIVISION OF
CR, CRB AND RECORDS



STIM-LAB, Inc.
7406 North HWY 81
Duncan, Oklahoma 73533
Phone: 580-252-4309
Fax: 580-252-6979
ronhimes@stimlab.com

Ron Himes
Core Flow Dept. Manager

July 14, 2000

Mr. John Hollingshead
River Gas Corp.
511 Energy Center Blvd.
Northport, AL 35473

RE: Scaling Tendency of D14 Connate and D3 Injection Water, Project 5890

Dear Mr. Hollingshead,

STIM-LAB Inc. analyzed the scaling tendency of the two submitted waters from the D14 well and D3 pond. The D3 injection water showed an initial total suspended solids (TSS) of 83 mg/l. Both fluids were then filtered and the scaling tendency measured at three volume ratios of D14:D3 of 75:25, 50:50 and 25:75. The results were 719 mg/l, 858 mg/l and 612 mg/l respectively. These results indicate there is a high tendency for the two waters to form a scale or precipitant upon mixing.

STIM-LAB Inc. appreciates the opportunity to perform this work for RGC. We hope you will continue to consider us for you future testing needs. Please call if you have any questions.

Sincerely,

Ron Himes
Dept. Manager
Core Flow Dept.

RH

Encl.



RIVER GAS CORPORATION

UTAH OPERATIONS
6825 South 5300 West
P.O. Box 851
Price, Utah 84501
Bus. (435) 613-9777
FAX (435) 613-9782

July 10, 2000

Mr. Gil Hunt
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Well Logs to Supplement Application for Injection Well: RGC D-14
NW1/4SE1/4 Section 16, T15S, R10E, SLB&M
Carbon County, Utah

Dear Mr. Hunt:

Pursuant to the June 30, 2000 Application for Injection Well – RGC D-14, River Gas Corp. is submitting the well logs for the D-14 well. Included are the Cement Bond Log, Array Induction Log and the Platform Express Log. Please combine this information with that already submitted for this well. Additional information, as indicated in the Injection Well Application, will be submitted as soon as it becomes available.

Sincerely,

A handwritten signature in black ink, appearing to read "Callen Hurtt", written over a horizontal line.

Callen Hurtt
Development Manager

Enclosure

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DIVISION OF
OIL, GAS AND MINING

RGCC

RIVER GAS CORPORATION

July 13, 2000

Mr. Chris Kierst
Utah Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, Utah 84114

RE: Geologic information regarding Class II injection application for well D-14, Carbon County, Utah

Dear Mr. Kierst:

The purpose of this letter is to provide the geologic information for River Gas Corporation's disposal well Sampinos # D-14 as requested in R649-5-2.10 of the Utah Administrative Code for natural resources. The formation tops within D-14, located in Section 16, T15S, R10E, are as follows:

Formation	Top
Mancos Shale	Surface
Ferron Sandstone	817'
Tununk Shale	1060'
Dakota Sandstone	1397'
Cedar Mountain	1441'
Morrison Formation	2271'
Summerville Formation	2790'
Curtis Sandstone	3188'
Entrada Sandstone	3351'
Carmel Sandstone	3983'
Navajo Sandstone	4558'
Kayenta Formation	5028'
Wingate Sandstone	5389'

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DIVISION OF OIL, GAS, AND MINING
SALT LAKE CITY, UTAH

Description of Injection Zones Within Well D-14

As you are aware, the injection intervals are located in the following lithologic units:

Formation	Gross Thickness (feet)	Gross Perforated Interval	Description
Navajo Sandstone	384	4558-4942	V. fine gr, lt tan-orange, cross-bedded
Wingate Sandstone	344	5026-5370	V. fine gr, orange-brown, cross-bedded

All of the above units are located within the Jurassic-aged Glen Canyon Group.

Confining Units

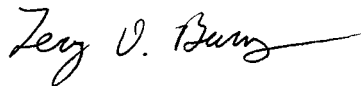
The upper confining unit of the injection interval is the Carmel Formation (top depth at 3983', gross thickness of approximately 575'), which is composed of silty sandstone, shale, limestone, and some anhydrite. Three anhydrite zones, located at 4190-4210, 4250-4280, and 4310-4350, exhibit higher minimum horizontal stresses than the injection interval. Therefore, these zones act as barriers to any uphole fracture migration.

The lower confining unit of the injection interval is the Chinle Shale at 5389'.

Also enclosed for your review is an updated cross-section which incorporates the D-14 well, along with a Navajo Structure map.

Please call me if you have any questions.

Sincerely,



Terry D. Burns

Geologist

GEO SCOUT LAND & TITLE COMPANY

P.O. BOX 11126 • SALT LAKE CITY, UTAH 84147 • (801) 364-7773

July 26, 2000

Mr. John Baza, Associate Director, Oil & Gas
Utah Division of Oil, Gas & Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: *River Gas Corporation*
RGC D-14 Injection Well
Section 16, Township 15 South, Range 10 East, SLM
Carbon County, Utah

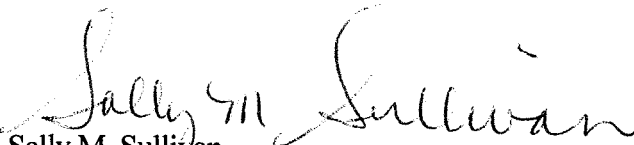
Dear Mr. Baza:

Reference is made to the pending application for injection well, for the captioned well filed by our client River Gas Corporation.

Enclosed are Affidavits fulfilling the requirements as set forth in Utah Admin. Code Rule R649-5-1 and copy of Exhibit "B" as described in said Affidavits.

If you have any further questions or concerns regarding this application, please do not hesitate to call either me or Joseph L. Stephenson of River Gas Corporation at (205) 759-3282. Thank you for your attention to this matter.

Sincerely,


Sally M. Sullivan
GeoScout Land & Title Company

enclosures

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JUL 27 2000

DIVISION OF
OIL, GAS AND MINING

JUL 27 2000

AFFIDAVIT

STATE OF UTAH

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COUNTY OF SALT LAKE

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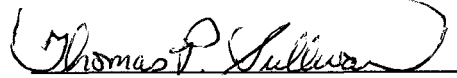
DIVISION OF
OIL, GAS AND MINING

Thomas P. Sullivan, being duly sworn upon his oath, deposes and states:

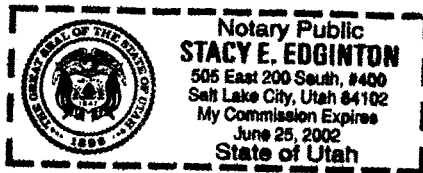
1. I am the President of GeoScout Land & Title Company ("GeoScout").
2. GeoScout is a company that specializes in mineral abstracts and mineral title searches. I have over twenty two years experience in searching the real estate records of all Utah counties relating to oil, gas and other mineral title.
3. Based solely on the following title data provided to me by River Gas Corporation, as supplemented by my review of the Carbon County records:
 - a. Drilling Title Opinion dated May 30, 1996 (effective February 14, 1996) covering the N $\frac{1}{2}$, N $\frac{1}{2}$ S $\frac{1}{2}$ of Section 16, Township 15 South, Range 10 East, SLM, prepared by the law firm of Pruitt, Gushee & Bachtell; and as supplemented by my review of the records of the Carbon County Recorder as indexed in the abstract (tract) indices against the said tracts of land.
 - b. Drilling Title Opinion dated October 28, 1994 (effective September 15, 1994) covering the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 16 and the N $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 21, Township 15 South, Range 10 East, SLM, among other lands, prepared by the law firm of Pruitt, Gushee & Bachtell; and as supplemented by my review of the records of the Carbon County Recorder as indexed in the abstract (tract) indices against the said tracts of land.
 - c. Based upon my review of the records of the Carbon County Recorder as indexed in the abstract (tract) indices against the remaining lands, the S $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 16 and the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 21 and the W $\frac{1}{2}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 15, I have determined the parties listed on "Exhibit B" include the "owners", "operators" and/or "surface owners" of the said Section 16: all; Section 15: W $\frac{1}{2}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$; Section 21: N $\frac{1}{2}$ N $\frac{1}{2}$ (as that term utilized in the Utah Admin. Code Rule R649-5-1) within the $\frac{1}{2}$ mile of the proposed River Gas Corporation D-14 Well, on July 17, 2000.
4. Attached hereto as Exhibit "B" is a listing of parties that were sent letters giving notice of the ~~XXXX~~ Application for Injection Well which River Gas Corporation submitted to the Division of Oil, Gas & Mining. The letters identified the tract(s) within the $\frac{1}{2}$ mile radius of said well in which said party owned an interest, the intent of River Gas Corporation to seek approval to use the well as an injection well, a copy of the Application for Injection Well was provided, the address and telephone number for the Division of Oil, Gas & Mining was provided in the event the party had a question regarding the permitting of said well, and River Gas Corporation offered to provide said parties with additional information associated with the Application for Injection Well if the party made a written request to River Gas Corporation.

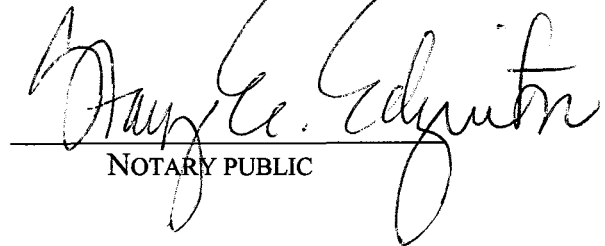
5. The matters stated herein are true of my own knowledge.

Dated this 26th day of July, 2000.


THOMAS P. SULLIVAN

Subscribed, sworn and acknowledged to and by Thomas P. Sullivan before me this
26th day of July, 2000.




NOTARY PUBLIC

RECEIVED

JUL 27 2000

DIVISION OF
OIL, GAS AND MINING

Exhibit "B"

Page 1 of 4

River Gas Corporation

Proposed Disposal Well D-14

NW¼SE¼ of Section 16

Township 15 South, Range 10 East, SLM

Carbon County, Utah

Operators, Owners, Surface Owners within a ½ mile radius
with last address as shown by the reviewed records

Price Utah North Stake of the
Church of Jesus Christ of Latter Day Saints
The Corporation of the Presiding Bishop
50 East North Temple
Salt Lake City, Utah 84150

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Jimmy Mills and Rachel Mills
P.O. Box 832
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Walter Morgan Donaldson
701 North 100 East
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

John N. Sampinos and
Toula Sampinos
950 North 300 East
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Violet Feichko
1210 E. 5500 S.
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

James T. Jensen
1155 N. Carbonville Road
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Jerry J. Jensen
1155 N. Carbonville Road
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Bonnie Lynne Gleave
1155 N. Carbonville Road
Price, Utah 84501

POSTMARKED:
July 26, 2000

Exhibit "B"

Page 2 of 4

River Gas Corporation
Proposed Disposal Well D-14
NW¼SE¼ of Section 16

Township 15 South, Range 10 East, SLM
Carbon County, Utah

Operators, Owners, Surface Owners within a ½ mile radius
with last address as shown by the reviewed records

Dix Jensen
1155 N. Carbonville Road
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Stefan B. and Kelley Ann Feichko
1200 East 5500 South
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Barry L. Mills and Toni Mills
764 East Mills Road
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Henry Mills and Maxine Mills
R2 Sight 6 Comp 5
Barnhart Road
Kamloops, British Columbia, Canada V2C 2JC

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Frank H. Feichko and Carol L. Feichko
P.O. Box 1436
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Norene K. Cudney
P.O. Box 135
Wellington, Utah 84542

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Chad M. Feichko and Dori L. Feichko
P.O. Box 124
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Alexandra Peperakis
Rt. 1 Box 320-B
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Angelo Peperakis, Jr.
2419 Brairmoor Rd.
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Exhibit "B"

Page 3 of 4

River Gas Corporation
Proposed Disposal Well D-14
NW¼SE¼ of Section 16

Township 15 South, Range 10 East, SLM
Carbon County, Utah

Operators, Owners, Surface Owners within a ½ mile radius
with last address as shown by the reviewed records

River Gas Corporation
Attn: Joseph L. Stephenson
Vice President - Land
511 Energy Center Blvd.
Northport, Alabama 35473

NOT APPLICABLE:
RGC ORIGINATED
NOTICES TO OTHER
PARTIES

Dominion Reserves - Utah, Inc.
901 East Byrd
Richmond, VA 23219

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Texaco Exploration and Production Inc.
Attn: Chuck Snure
Denver Division
P.O. Box 2100
Denver, CO 80201

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Lewis Chiaretta
756 North 600 East
Price, Utah 84501-2124

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Arthur J. Anderson
4190 Fortuna Way
Salt Lake City, Utah 84124-3364

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Jack C. Chiaretta and Joyce M. Chiaretta
5978 South 1500 East
Price, Utah 84501-8300

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Thelma Neilson Newman
305 East 300 North
Monroe, Utah 84754-4279

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Violet M. Adams
373 Ridges Blvd.
No. 306
Grand Junction, Colorado 81503

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Exhibit "B"

Page 4 of 4

River Gas Corporation

Proposed Disposal Well D-14

NW¼SE¼ of Section 16

Township 15 South, Range 10 East, SLM

Carbon County, Utah

Operators, Owners, Surface Owners within a ½ mile radius
with last address as shown by the reviewed records

Koula P. Henrie
2215 South 2100 East
Salt Lake City, Utah 84109

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

Carbon County
Carbon County Courthouse
Price, Utah 84501

CERTIFIED MAIL
POSTMARKED:
July 26, 2000

**ANALYSIS OF THE STEP
RATE TEST IN WELL D-14
AT DRUNKARD'S WASH**

PREPARED FOR:

**RIVER GAS CORPORATION
1300 MCFARLAND BLVD., STE. 300
TUSCALOOSA, ALABAMA 35406**

PREPARED BY:

**MICHAEL W. CONWAY
STIM-LAB, INC.
7406 NORTH HWY 81
DUNCAN, OKLAHOMA 73534**

**P.O. NUMBER: VERBAL/JOHN HOLLINGSHEAD
FILE NUMBER: SL-5205**

JULY 27, 2000

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM SAMPLES AND LOGS WHICH WERE SUPPLIED. WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

MICROFICHE



ANALYSIS OF THE STEP RATE INJECTION TEST CONDUCTED IN WELL D-14 AT DRUNKARD'S WASH

Well D-14 was completed in June 2000 and a step rate test was conducted on July 10, 2000 to determine the fracture parting pressure in the Navajo sandstone. Both the Navajo and Wingate sandstones were opened through perforations at the depths shown in Table 1.

The well was acidized by setting a packer at 4530' and 2500 gal of 15% HCl was pumped at an average rate of 6 BPM with 2000 ball sealers. This change in the approach to breaking down the well was undertaken because of the previous problems with zonal isolation when separate acidizing stages were attempted and is the same procedure as used in D-11. Some ball action was noted.

Table 1 - Perforation Placement in Well D-14

Perforation Location (ft)
4558-4644
4656-4697
4707-4747
4761-4878
4883-4903
4913-4942
5026-5110
5147-5167
5264-5281

A total of about 2757 barrels of water was then injected in a short, high rate breakdown and a step rate test. After the short injection at 10 BPM and shut-in, the step rate test was started at 1 BPM and continued up to the maximum rate. The surface and bottom hole recorded data from the injection phase is shown in Figure 1. The rates were varied from about 1 to a maximum of 16 BPM

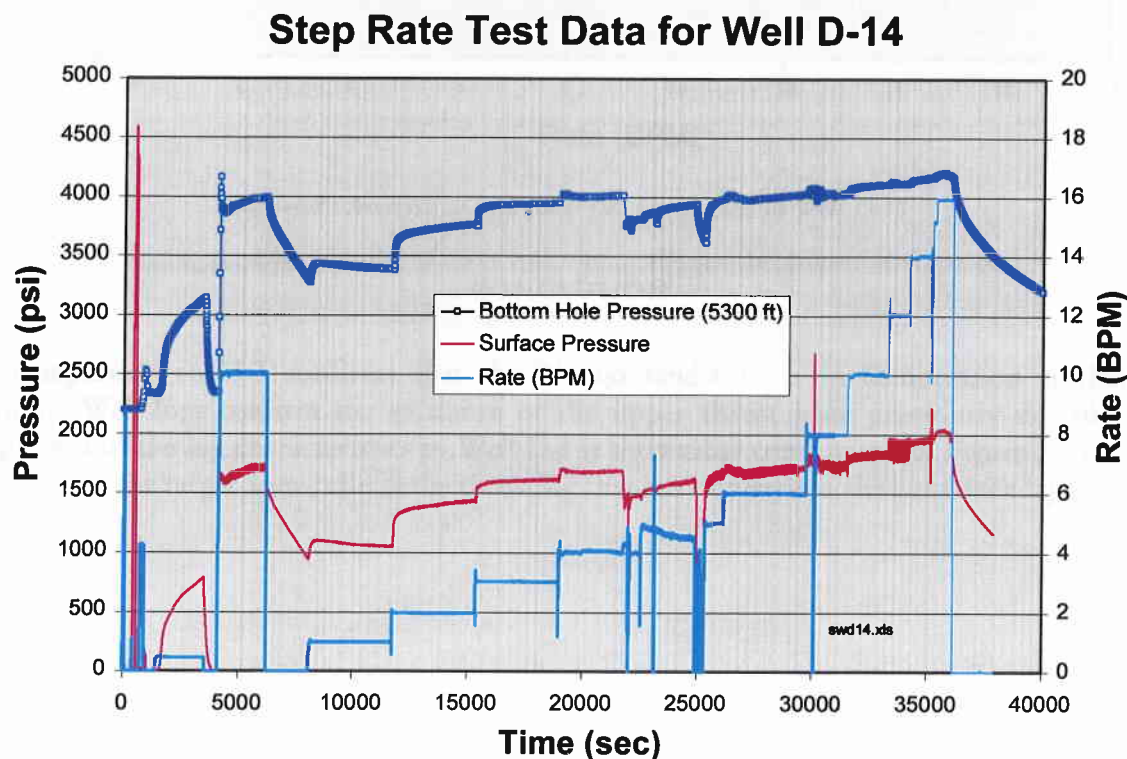


Figure 1 - Step Rate data for test performed on Well D-14.

The initial pressure was 2200 psi at a gauge depth of 5300'. This is an initial pore pressure gradient of 0.415, which is somewhat higher than the 0.388 psi/ft gradient seen in D-3. The analysis of the pressure data from the downhole gauge shows an ultimate fracture extension pressure of 3990 psi which is a gradient of 0.75 psi/ft. The traditional rate-pressure plot is given in Figure 2. A comparison with Well D-3 and D-11 shows that D-14 is intermediate in stress between those wells with a fracture parting pressure equivalent to a surface injection pressure of 1695 psi. These three wells are in compression while all other wells are in tension. This is consistent with the stress model proposed for the Navajo Formation in Drunkard's Wash.

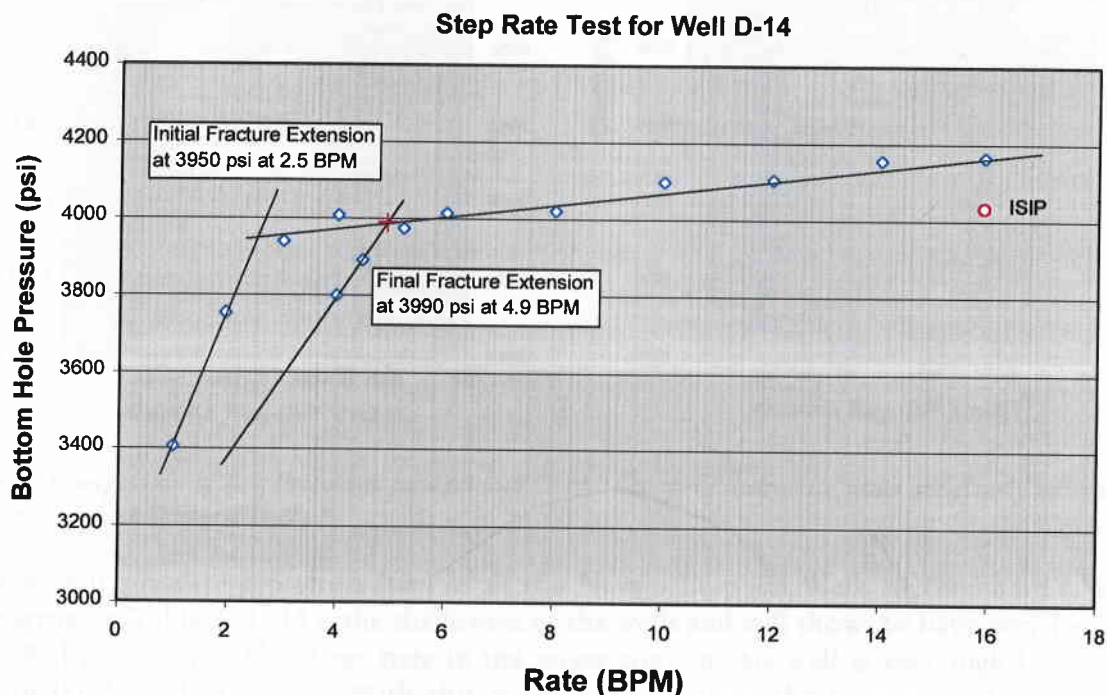


Figure 2 - Analysis of Step Rate Test Conducted in Well D-14

CONCLUSION

The comparison to D-3 confirms that the Navajo sandstone is in compression at this well location. Well logs confirm the existence of the upper thrust plate previously described. A comparison of the log characteristics to Well D-3 is shown for comparison in Figure 3. The high stress state in the target zone reflects the thrusting that has occurred in the anhydrite layer.

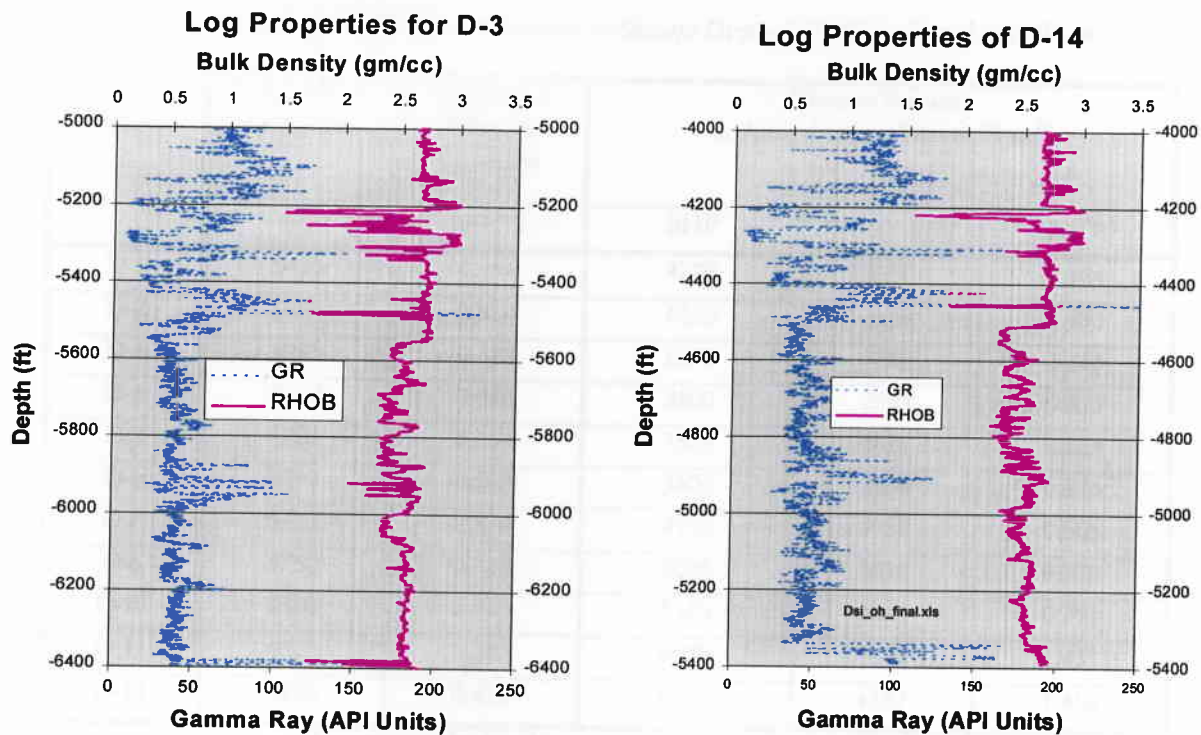


Figure 3 - Comparison of Log Properties for D-3 and D-14. The three Anhydrite zones are clearly recognized by their density which is approximately 3

The reservoir pressure and stress state in all the Navajo Disposal Wells in Drunkard's Wash is summarized in Table 2. D-14 is the shallowest of the wells and still shows to have very high stress in the Anhydrite cap. The stress state in the target zone in this well is very high but so is the stress in the bounding layers. With this many wells in place, the original explanation of the source of the stresses still remains valid and gives good confidence that the Navajo Sandstone is well isolated from all zones above the anhydrite cap at the injection pressures being used. We recommend that an initial wellhead limit of 2250 psi be established for this well.

Table 2: Summary of Reservoir Stresses in Navajo Disposal Wells in Drunkards Wash

Well Name	Lower Plate Anhydrite	Reservoir Pressure Gradient	Closure Pressure in Anhydrite in Lower Plate ⁽¹⁾		
	(ft)	(psi/ft)	BHP	Surface (psi)	(psi/ft)
D-1	5410	0.394	4780	2437	0.884
D-2	6884	0.350	6150	3169	0.893
D-3	5285	0.388	6675	4387	1.263
D-4	5762	0.412	4800	2305	0.833
D-5	6707	0.351	5525	2621	0.824
D-6	6799	0.347	5600	2656	0.824
D-7	5412	0.439	4900	2557	0.905
D-8	5750	0.443	5000	2510	0.870
D-10	6550	0.375	5180	2344	0.791
D-11	4823	0.393	6900	4812	1.431
D-14	4290	0.415	6245	4387	1.456

⁽¹⁾Lower Plate stress calculated by assuming closure pressure in Navajo is 250-350 psi lower than the fracture extension pressure.

Michael W. Conway, Ph.D.

July 27, 2000

GeoScout Land & Title Company
P.O. Box 11126
Salt Lake City, Utah 84147
Phone: 801-364-7773
Fax: 801-531-8468

GeoScout

Fax

To: Lisha **From:** Thomas P. Sullivan
Fax: 359-3940 **Date:** July 28, 2000
Phone: **Pages:** 2
Re: **CC:**

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

•Comments: Lisha,

Here is a map for the Exhibit A that I worked up. Can you let me know if it is sufficient for your needs? Thanks.

Sally

364-7773
GeoScout
Sally Sullivan

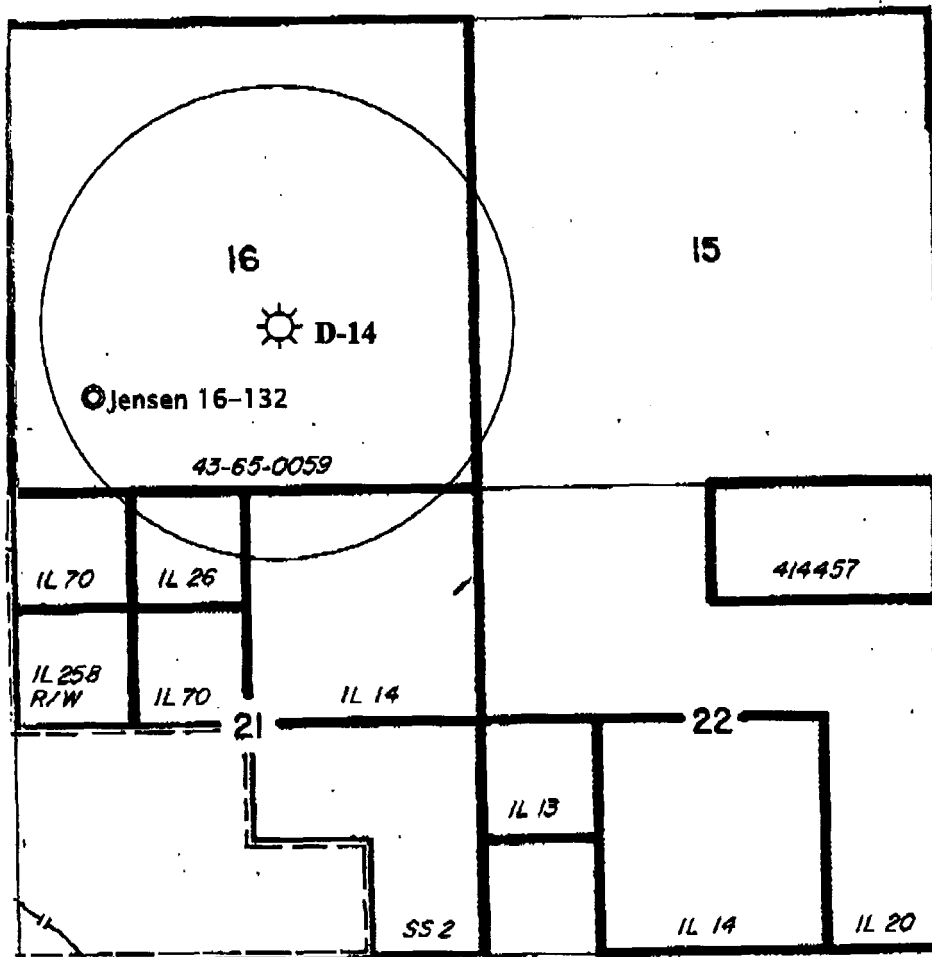
Exhibit "A"

Page 1 of 1

River Gas Corporation
Proposed Disposal Well D-14
NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 16, T15S, R10E, SLM
Carbon County, Utah

Owners, Operators and Surface Owners
(as that term utilized in the Utah Admin. Code Rule R649-5-1)
within the $\frac{1}{2}$ mile of the proposed River Gas Corporation D-14 Well,
on July 17, 2000.

See pages 1-4 of Exhibit "B" for said list of
"Owners, Operators and Surface Owners"



Scale: 1 inch = 2000 feet

Exhibit prepared by:

Sally M. Sullivan
GeoScout Land & Title Company

7-28-00

Date



RIVER GAS CORPORATION

UTAH OPERATIONS
6825 South 5300 West
P.O. Box 851
Price, Utah 84501
Bus. (435) 613-9777
FAX (435) 613-9782

July 27, 2000

Mr. Gil Hunt
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Water Analyses for Injection Well: RGC D-14
NW1/4SE1/4 Section16, T15S, R10E, SLB&M
Carbon County, Utah

Dear Mr. Hunt:

Pursuant to the June 30, 2000 Application for Injection Well – RGC D-14, River Gas Corp. is submitting the water sample analyses for the D-14 well. The enclosed analyses are marked preliminary because the sodium analyses was not final yet. The lab will have the final value for sodium next Tuesday, August 1, however, we do not expect the final value to affect the ability to permit this well. The final sodium analyses will be sent to you as soon as we receive it.

Please combine this information with that already submitted for this well. Additional information, as indicated in the Injection Well Application, will be submitted as soon as it becomes available.

Sincerely,

Callen Hurtt
Development Manager

Enclosure

RECEIVED

AUG 2 2000

DIVISION OF
OIL, GAS AND MINING

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Date: 7/27/00

Group #: 38762
Lab #: 00-U006295
Sample Desc: D-14 Wingate
Packer- 5004
Perfs- 5026-5110, 5147-5167
Plugs- 5173
Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 7/00
Date/Time Received: 7/11/00, 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		DATE ANALYZED	METHOD	ANALYST
		LIMIT (MRL)				
INORGANIC PARAMETERS						
Alkalinity, as Bicarbonate, mg/L	4,180	1		7/17/00 12:45	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 3	3		7/17/00 12:45	SM 2320B	TSM
Alkalinity, as Hydroxide, mg/L	< 3	3		7/17/00 12:45	SM 2320B	TSM
Alkalinity, Total (CaCO3), mg/L	3,430	1		7/17/00 12:45	SM 2320B	TSM
Chloride, mg/L	105,000	500		7/14/00 8:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	179,000	1		7/14/00 11:20	EPA 120.1	MJB
Resistivity, ohms	< 0.1	0.1		7/25/00 10:31	Sm18 2510A	LH
pH, units	7.7	0.1		7/12/00	EPA 150.1	LPS
Specific Gravity, g/ml	1.120	0.005		7/14/00 14:00	EPA 131.1	MJB
Sulfate, mg/L	3,180	1000		7/21/00 15:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	188,000	250		7/17/00 15:00	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	1,400	2		7/17/00 16:21	EPA 200.7	JJT
Iron (T), as Fe, mg/L	230	0.2		7/17/00 16:21	200.2/200.7	JJT

Approved By:

PRELIMINARY

David Gayer, Laboratory Director

MRL = Report detection limit

Page 1

(generic.rpt)

Date: 7/27/00

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Group #: 38762
Lab #: 00-U006295
Sample Desc: D-14 Wingate
Packer- 5004
Perfs- 5026-5110, 5147-5167
Plugs- 5173
Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 7/00 ,
Date/Time Received: 7/11/00 , 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	320	2	7/17/00 16:21	EPA 200.7	JJT
Sodium (T), as Na, PRELIMINARY	> 500	0.2		EPA 200.7	JJT
Temperature, Receiving, C	8.0		7/11/00 12:30		CSM

NOTE: Sample received on ice.

Approved By:

PRELIMINARY
David Gayer, Laboratory Director

MRL = Report detection limit

Page 2

{generic.rpt}

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Date: 7/27/00

Group #: 38762
Lab #: 00-U006296
Sample Desc: D-14 Navajo
Packer- 4530
Perfs- 4558-4644
Bridge Plug- 4650
Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 6/00 , 21:00
Date/Time Received: 7/11/00 , 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		DATE ANALYZED	METHOD	ANALYST
		LIMIT (MRL)				
INORGANIC PARAMETERS						
Alkalinity, as Bicarbonate, mg/L	1,010	1		7/17/00 12:45	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 2	2		7/17/00 12:45	SM 2320B	TSM
Alkalinity, as Hydroxide, mg/L	< 2	2		7/17/00 12:45	SM 2320B	TSM
Alkalinity, Total (CaCO3), mg/L	828	1		7/17/00 12:45	SM 2320B	TSM
Chloride, mg/L	67,500	250		7/14/00 8:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	135,000	1		7/14/00 11:20	EPA 120.1	MJB
Resistivity, ohms	< 0.1	0.1		7/25/00 20:32	Sm18 2510A	LH
pH, units	7.0	0.1		7/12/00	EPA 150.1	LPS
Specific Gravity, g/ml	1.080	0.005		7/14/00 14:00	EPA 1311	MJB
Sulfate, mg/L	5,180	1000		7/21/00 15:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	121,000	250		7/17/00 13:00	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	890	0.2		7/17/00 16:21	EPA 200.7	JJT
Iron (T), as Fe, mg/L	40	0.02		7/17/00 16:21	200.2/200.7	JJT

PRELIMINARY

Approved By:

David Gayer, Laboratory Director

MRL = Report detection limit

Page 3

(generic.rpt)

Date: 7/27/00

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Group #: 38762
Lab #: 00-U006296
Sample Desc: D-14 Navajo
Packer- 4530
Perfs- 4550-4644
Bridge Plug- 4650
Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 6/00 , 21:00
Date/Time Received: 7/11/00 , 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		DATE ANALYZED	METHOD	ANALYST
		LIMIT (MRL)	DATE			
INORGANIC PARAMETERS						
Magnesium (T), as Mg, mg/L	210	0.2	7/17/00 16:21	EPA 200.7	JJT	
Sodium (T), as Na, PRELIMINARY	> 500	0.2		EPA 200.7	JJT	
Temperature, Receiving, C	9.0		7/11/00 12:30		CSM	

NOTE: Sample received on ice.

Approved By:

PRELIMINARY

David Gayer, Laboratory Director

MRL = Report detection limit

Page 4

(generic.rpt)

See pages 1-4 of Exhibit "B" for said list of
"Owners, Operators and Surface Owners"

-1)
Well,
*This does not show in
any of the pictures*

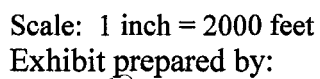



Exhibit prepared by:


Sally M. Sullivan
GeoScout Land & Title Company

7-28-00
Date

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER: **Water Disposal Well**

2. Name of Operator:
River Gas Corporation

3. Address and Telephone Number: **6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777**

4. Location of Well
Footages: **1695' FSL, 2133' FEL**
QQ, Sec., T., R., M.: **NW/SE SEC. 16, T15S, R10E, SLB & M**

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Sampinos D-14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Undesignated

County: **Carbon County**

State: **Utah**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other Supplement to Form 1 | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The attached information is supplemental data as requested in the UIC Form 1

j.hollins@rivergas.com

RECEIVED

AUG 03 2000

**DIVISION OF
OIL, GAS AND MINING**

13.

Name & Signature: **John Hollingshead**

Title: **Reservoir Engineer**

Date: **8-2-2000**

(This space for state use only)

RECEIVED

AUG 03 2000

RGC
RIVER GAS CORPORATION

DIVISION OF
OIL, GAS AND MINING

August 02, 2000

Mr. Christopher J. Kierst
State of Utah
Department of Natural Resources
Division of Oil, Gas, & Mining
1594 West North Temple St.
Ste. 1210
Box 145801
Salt Lake City, Ut 84114-5801

Re: D-14 Disposal Well
Carbon County, Utah

Dear Mr. Kierst,

The above well is located in Section 16, Township 15 South, Range 10 East (SLB&M). The following data is being submitted as supplemental information as stipulated by the UIC Form 1.

Summary of Events

On June 29, 2000, Ross Well Services rigged up to perform completion operations on this well. A 6 1/8" bit, drill collars, and 124 jts. 2 7/8" tubing were run in the hole to drill out the cement diverting tool located at 4090 feet. After drilling up the DV tool, the bit continued in the hole until the bit tagged up at 5408 feet. The bit drilled down an additional 8 1/2 feet, and then preparations were made to trip out of hole.

On June 30, 2000, the tubing, drill collars, and bit were tripped out of the hole. The bit and drill collars were landed & nipples down. A bit & scraper were nipples up and run in the hole to 5416 feet. The hole was displaced with fresh water, and the work string was pulled out of the hole.

On July 1, 2000, Schlumberger wireline was rigged up, and a cement bond log was performed. This log was run while holding a surface pressure of 1000 psi.. RGC, Schlumberger, and Ross personnel witnessed this activity and can attest that no appreciable pressure loss was realized during the bond logging operation.

On July 5, 2000, Schlumberger Wireline Services shot the following perforations (4" HEGS gun system, 4 spf, 90 deg. Phased, EH-.42", Pen.- 21.67") through the 7" 23# N-80 production casing:

5264-5281 ft.	17ft.
5147-5167 ft.	20ft.
5026-5110 ft.	84ft.
4913-4942 ft.	29ft.
4883-4903 ft.	20ft.
4761-4878 ft.	117ft.

4707-4747 ft.	40ft.
4656-4697 ft.	41ft.
4558-4644 ft.	86ft.
	<hr/> 454ft. x 4spf= 1,816 holes

On July 6, 2000, a packer & bridge plug was picked up and run in the hole to 4530ft. & 4650ft., respectively. The swab line was rigged up and 177 barrels of upper Navajo water were recovered. On the last runs, several samples were collected.

On July 7, 2000, the packer & bridge plug were moved to 5004 ft. & 5173 ft., respectively, straddling the Wingate formation. Again, the swab line was rigged up and 43 barrels of connate fluid were recovered. Samples from the upper Navajo & Wingate were packed on ice and sent to ChemTech-Ford Analytical Labs, so water analyses could be conducted. The packer & bridge plug were pulled out of the hole. The packer was inspected and run back in the hole to 4530 ft.. The backside above the packer was tested to 1000 psi..

On July 8, 2000, Dowell was rigged up to conduct an acid breakdown on the perforations. 2500 gallons of 15% HCL acid was pumped with 2000 7/8" ball sealers for diversion. The average pump rate & pressure were 6 bpm & 2200 psi., respectively. Some ball action was noticed. The ISIP was 1387 psi. The 5, 10, 15 minute shut-in pressures were: 984 psi.; 577 psi.; and 330 psi.. The packer was released and pulled out of the hole.

On July 9, 2000, Northern Lights rigged up their slickline unit and ran in the hole with tandem quartz memory gauges to 5905 ft. The static BHP & temperature was 2200 psi. & 126 degrees F., respectively.

On July 10, 2000, Dowell performed a step-rate test to determine the parting pressure of the rock. Approximately 2,757 barrels of 2% KCL fluid was pumped at rates ranging from 1 to 16 bpm. The ISIP, 5,10,15,20,25 minute shut-in pressures were: 1552 psi; 1396 psi; 1295 psi; 1204psi; 1108psi; and 1035 psi. Upon completing the test, the well was shut-in for approximately seven days to record the fall-off pressures. The attached Stim-Lab report details the results of the step-rate test.

The following details specific points as mandated by the UIC form 1.

Step-Rate Test

Stim-Lab Inc., a Core Laboratories Company, reviewed the data gathered July 10, 2000 during the D-14 step-rate test. The results of their findings determined the fracture parting pressure to be 3990 psi.(1695 psi. surface) at 4.9 bpm. This corresponds to a fracture gradient of .75 psi/ft., which falls between the gradients seen at D-3 and D-11.

A comparison of log characteristics of D-14 relative to D-3 was performed. The anhydrite barriers located above the Navajo in D-14 correlated nicely to the D-3 well. This suggests D-14 has the same sealing mechanisms noticed in the other disposal wells within Drunkards Wash. The D-14 stress regime appears to be in a compression

state similar to the D-3 & D-11 wells. The D-14 rock mechanic characteristics provide one more frame of the overall stress picture within the project area. This new information will be helpful as the model of the Navajo is updated later this year.

Water Analysis of Navajo

Attached are test results from Chemtech-Ford Laboratories of Salt Lake City, Utah. The upper Navajo connate water had a TDS level of 121,000 mg/l. The Wingate connate water had a TDS level of 188,000 mg/l. These connate fluids are well above the 10,000 mg/l cut-off limit. Also, perforations, packer, and bridge plug depths were placed on the analysis sheets to show where and how the sampled zones were isolated.

Compatibility of Connate Fluids with Injection Fluids

Stim-Lab performed a compatibility test of D-14 connate water to produced water from the D-3 holding pond. Stim-Lab's findings suggest there is a high scaling tendency when the waters are mixed. These results are the first time we have seen a scaling tendency of mixing waters, and additional testing will be conducted to insure accuracy. The follow-up results will be forwarded to you, as they become available.

Casing Pressure Test

The 7 inch casing was pressure tested to a surface of 1000 psig as witnessed by RGC and Schlumberger Wireline personnel. This pressure was held while bond logging the well. The 1000 psig. pressure is noted on the bond log that is included with this packet of information.

Requested Maximum Injection Pressure

River Gas Corporation respectfully requests that the maximum injection pressure be established at **1700** psig. surface. This pressure is consistent with the D-3 well (1700psi). The anhydrite barriers seen in every injection well within Drunkards Wash are present in D-14, so containment of the injected fluids should be achieved. Stim-Lab elaborates more about this point in their report. As with other disposal wells in the field, D-14 tracer surveys will be run periodically to insure the injection stream is contained within the permitted disposal horizons.

Please contact me at 205-759-3282 should you have any questions pertaining to the above information.

Most Cordially,



John Hollingshead
Reservoir Engineer

CHEMTECH-FORD

ANALYTICAL LABORATORIES

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501


Date: 7/31/00

Group #: 38762
Lab #: 00-U006296
Sample Desc: D-14 Navajo
Packer- 4530
Perfs- 4558-4644
Bridge Plug- 4650
Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 6/00 , 21:00
Date/Time Received: 7/11/00 , 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		DATE ANALYZED	METHOD	ANALYST
		LIMIT (MRL)				
INORGANIC PARAMETERS						
Alkalinity, as Bicarbonate, mg/L	1,010	1		7/17/00 12:45	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 2	2		7/17/00 12:45	SM 2320B	TSM
Alkalinity, as Hydroxide, mg/L	< 2	2		7/17/00 12:45	SM 2320B	TSM
Alkalinity, Total (CaCO3), mg/L	828	1		7/17/00 12:45	SM 2320B	TSM
Chloride, mg/L	67,500	250		7/14/00 8:00	EPA 325.3	TSM
Conductance, Specific umhos/cm	135,000	1		7/14/00 11:20	EPA 120.1	MJB
Resistivity, ohms	< 0.1	0.1		7/25/00 10:32	Sm18 2510A	LH
pH, units	7.0	0.1		7/12/00	EPA 150.1	LPS
Specific Gravity, g/ml	1.080	0.005		7/14/00 14:00	EPA 1311	MJB
Sulfate, mg/L	5,180	1000		7/21/00 15:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	121,000	250		7/17/00 15:00	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	890	0.2		7/17/00 16:21	EPA 200.7	JJT
Iron (T), as Fe, mg/L	40	0.02		7/17/00 16:21	200.2/200.7	JJT

Approved By:


David Gayer, Laboratory Director

MRL = Report detection limit

Page 3

{generic.rpt}

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905
801 262 7299 PHONE
801 262 7370 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 7/31/00

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Group #: 38762

Lab #: 00-U006296

Sample Desc: D-14 Navajo

Packer- 4530

Perfs- 4558-4644

Bridge Plug- 4650

Sample Matrix: WASTE WATER

Date/Time Sampled: 7/ 6/00 / 21:00

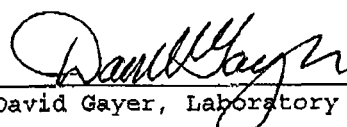
Date/Time Received: 7/11/00 / 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	210	0.2	7/17/00 16:21	EPA 200.7	JJT
Sodium (T), as Na, mg/L	40,000	20	7/27/00 16:36	EPA 200.7	JJT
Temperature, Receiving, C	9.0		7/11/00 12:30		CSM

NOTE: Sample received on ice.

Approved By:


David Gayer, Laboratory Director

MRL = Report detection limit.

Page 4

{generic.rpt}

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905
801 262 7299 PHONE
801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 7/31/00

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Group #: 38762
Lab #: 00-U006295
Sample Desc: D-14 Wingate
Packer- 5004
Perfs- 5020-5110, 5147-5167
Plugs- 5178

Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 7/00
Date/Time Received: 7/11/00, 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		DATE	METHOD	ANALYST
		LIMIT	DATE			
		(MRL)	ANALYZED			
INORGANIC PARAMETERS						
Alkalinity, as Bicarbonate, mg/L	4,180	1	7/17/00 12:45	SM 2320B	TSM	
Alkalinity, as Carbonate, mg/L	< 3	3	7/17/00 12:45	SM 2320B	TSM	
Alkalinity, as Hydroxide, mg/L	< 3	3	7/17/00 12:45	SM 2320B	TSM	
Alkalinity, Total (CaCO3), mg/L	3,430	1	7/17/00 12:45	SM 2320B	TSM	
Chloride, mg/L	105,000	500	7/14/00 8:00	EPA 325.3	TSM	
Conductance, Specific, umhos/cm	179,000	1	7/14/00 11:20	EPA 120.1	MJB	
Resistivity, ohms	< 0.1	0.1	7/25/00 10:31	Sm18 2510A	LH	
pH, units	7.7	0.1	7/12/00	EPA 150.1	LPS	
Specific Gravity, g/ml	1.120	0.005	7/14/00 14:00	EPA 1311	MJB	
Sulfate, mg/L	3,180	1000	7/21/00 15:30	EPA 375.4	TSM	
Total Dissolved Solids, mg/L	188,000	250	7/17/00 15:00	EPA 160.1	LPS	
Calcium (T), as Ca, mg/L	1,400	2	7/17/00 16:21	EPA 200.7	JJT	
Iron (T), as Fe, mg/L	230	0.2	7/17/00 16:21	200.2/200.7	JJT	

Approved By:

David Gayer, Laboratory Director

MRL = Report detection limit

Page 1

{generic.rpt}

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905
801 262 7299 PHONE
801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

To: River Gas of Utah
attn. John Hollingshead
1305 South 100 East
Price, UT 84501

Date: 7/31/00

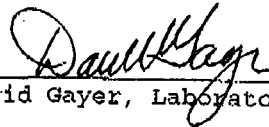
Group #: 38762
Lab #: 00-U006295
Sample Desc: D-14 Wingate
Packer- 5004
Perfs- 5026, 5110, 5147-5167
Plugs- 5173
Sample Matrix: WASTE WATER
Date/Time Sampled: 7/ 7/00
Date/Time Received: 7/11/00, 12:30

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	320	2	7/17/00 16:21	EPA 200.7	JJT
Sodium (T), as Na, mg/L	62,000	200	7/27/00 16:36	EPA 200.7	JJT
Temperature, Receiving, C	8.0		7/11/00 12:30		CSM

NOTE: Sample received on ice.

Approved By:


David Gayer, Laboratory Director

MRL = Report detection limit

Page 2

{generic.rpt}

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905
801 262 7299 PHONE
801 262 7378 FAX

RECEIVED

AUG 14 2000

DIVISION OF
OIL, GAS AND MINING


AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

ss.

County of Carbon,)

I, Kevin Ashby, on oath, say that I am the Publisher of the Sun Advocate, a twice-weekly newspaper of general circulation, published at Price, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and that the first publication was on the 8th day of August 2000, and that the last publication of such notice was in the issue of such newspaper dated the 8th day of August, 2000.


Kevin Ashby - Publisher

Subscribed and sworn to before me this 8th day of August, 2000.



Notary Public My commission expires January 10, 2003 Residing at Price, Utah

Publication fee, \$ 94.25

**NOTICE OF AGENCY ACTION
CAUSE UIC-260**

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE
APPLICATION OF FOR
ADMINISTRATIVE APPROVAL OF
THE RGC D-14 WELL LOCATED IN
SECTION 16, TOWNSHIP 15 SOUTH,
RANGE 10 EAST, SALT LAKE,
CARBON COUNTY, UTAH, AS A
CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE-ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of RIVER GAS CORPORATION for administrative approval of the RGC D-14 well, located in Section 16, Township 15 SOUTH, Range 10 EAST, CARBON County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the NAVAJO AND WINGATE Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by RIVER GAS CORPORATION.

Any person desiring to object the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 3th day of AUGUST, 2000.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
-s- John R. Baza
Associate Director, Oil & Gas.

Published in the Sun Advocate August 8, 2000.



LINDA THAYN
NOTARY PUBLIC - STATE of UTAH
845 EAST MAIN
PRICE, UTAH 84501
COMM. EXP. 1-10-2003

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D.# 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune



DESERET NEWS

CUSTOMER'S
COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	08/10/00

RECEIVED

AUG 14 2000

DIVISION OF
OIL, GAS AND MINING

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8200SL5G1
SCHEDULE	
START 08/10/00 END 08/10/00	
CUST. REF. NO.	
UIC-260	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
50 LINES	2.00 COLUMN
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	164.00
TOTAL COST	
164.00	

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

--ooOoo--

IN THE MATTER OF THE APPLICATION OF FOR ADMINISTRATIVE APPROVAL OF THE RGC D-14 WELL LOCATED IN SECTION 16, TOWNSHIP 15 SOUTH, RANGE 10 EAST, SALT LAKE, CARBON COUNTY, UTAH, AS A CLASS II INJECTION WELL

NOTICE OF AGENCY ACTION

CAUSE NO. UIC-260

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of RIVER GAS CORPORATION for administrative approval of the RGC D-14 well, located in Section 16, Township 15 SOUTH, Range 10 EAST, Carbon County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the NAVAJO AND WINGATE Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by RIVER GAS CORPORATION.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 3rd day of AUGUST, 2000.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

/s/ John R. Baza
Associate Director, Oil & Gas

8200SL5G

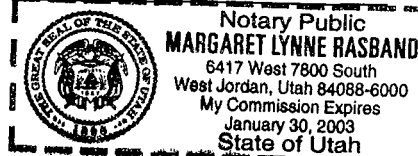
AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY
ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA
DIV OF OIL-GAS & MINING WAS PUBLISHED BY
CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET
PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION
IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 08/10/00 END 08/10/00

SIGNATURE Margaret Lynne Hasband

DATE 08/10/00



THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

B

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE	:	NOTICE OF AGENCY
APPLICATION OF FOR	:	ACTION
ADMINISTRATIVE APPROVAL OF	:	
THE RGC D-14 WELL LOCATED IN	:	CAUSE NO. UIC-260
SECTION 16, TOWNSHIP 15 SOUTH,	:	
RANGE 10 EAST, SALT LAKE,	:	
CARBON COUNTY, UTAH, AS A	:	
CLASS II INJECTION WELL	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

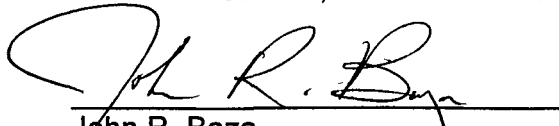
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Dated this 3th day of AUGUST, 2000.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



John R. Baza
Associate Director, Oil & Gas

**RIVER GAS CORPORATION
RGC D-14
Cause No. UIC-260**

Publication Notices were sent to the following:

RIVER GAS CORPORATION
PO Box 851
Price, UT 84501

Salt Lake Tribune fax #237-2776
143 So Main Street
Salt Lake City, UT 84111

Sun Advocate fax #435-637-2716
845 East Main St
Price, UT 84501-2708

Moab District Office
Bureau of Land Management
82 East Dogwood
Moab, UT 84532

CARBON County Assessor
102 East Main St
Price, UT 84501

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466



Earlene Russell
Secretary
August 4, 2000

TRANSACTION REPORT

P. 01

AUG-04-2000 FRI 03:38 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
AUG-04	03:37 PM	2372776	41"	2	SEND	OK	390	

TOTAL : 41S PAGES: 2



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

August 4, 2000

SENT VIA FAX

Salt Lake Tribune fax #237-2776
143 So Main Street
Salt Lake City, UT 84111

RE: Notice of Agency Action - Cause No. UIC-260

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

[Handwritten signature]



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
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August 4, 2000

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Sincerely,

Earlene Russell
Earlene Russell
Secretary

encl.

TRANSACTION REPORT

P. 01

AUG-04-2000 FRI 03:39 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
AUG-04	03:38 PM	14356372716	46"	2	SEND	OK	391	

TOTAL : 46S PAGES: 2



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

August 4, 2000

SENT VIA E-MAIL AND FAX

Sun Advocate fax #435-637-2716
845 East Main St
Price, UT 84501-2708

RE: Notice of Agency Action - Cause No. UIC-260

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Sincerely,

[Handwritten signature]



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

August 4, 2000

SENT VIA E-MAIL AND FAX

Sun Advocate fax #435-637-2716

845 East Main St

Price, UT 84501-2708

RE: Notice of Agency Action - Cause No. UIC-260

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Earlene Russell

Secretary

encl.

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE

NOTICE OF AGENCY
ACTION

APPLICATION OF RIVER GAS CORPORATION
(operator)

CAUSE NO. UIC- 260

FOR ADMINISTRATIVE APPROVAL

OF THE RGC D-14

_____ WELL#

COPY TO: BLM
CARBON COUNTY

LOCATED IN SECTION# 16

TOWNSHIP 15 South

RANGE 10 EAST

S.L.M. or USM

CARBON COUNTY, UTAH,

AS CLASS II INJECTION WELL#

A

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of (operator - same as above) for administrative approval of the (same as above) well#, located in Sections (same as above), Township (same as above), Range (same as above), S.L.M. or USM, (same as above) County, Utah, for conversion to Class II injection well#. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The NAUATO AND WINGATE Formations will be selectively perforated for water injection. The maximum injection pressure and rate will be determined ~~on each individual well~~ based on fracture gradient information submitted by Inland Production Company
RIVER GAS CORPORATION

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this _____ day of _____ 199__.

August 22, 2000

Mr. Chris Kierst
Utah Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, Utah 84114

RE: Geologic information regarding Class II injection application for Utah well #D-14,
Carbon County, Utah

Dear Mr. Kierst:

The purpose of this letter is to provide the geologic information for River Gas Corporation's disposal well Utah # D-14 as requested in R649-5-2.10 of the Utah Administrative Code for natural resources. The formation tops within D-14, located in Section 16, T15S, R10E, are as follows:

<u>Formation</u>	<u>Top</u>
Mancos Shale	Surface
Ferron Sandstone	817'
Tununk Shale	1060'
Dakota Sandstone	1397'
Cedar Mountain	1441'
Morrison Formation	2271'
Summerville Formation	2790'
Curtis Sandstone	3188'
Entrada Sandstone	3351'
Carmel Sandstone	3983'
Navajo Sandstone	4558'
Kayenta Formation	4880'
Wingate Sandstone	5028'

Description of Injection Zones Within Well D-14

As you are aware, the injection intervals are located in the following lithologic units:

Formation	Gross Thickness (feet)	Gross Perforated Interval	Description
Navajo Sandstone	384	4558-4942	V. fine gr, lt tan-orange, cross-bedded
Wingate Sandstone	344	5026-5370	V. fine gr, orange-brown, cross-bedded

All of the above units are located within the Jurassic-aged Glen Canyon Group.

Confining Units

The upper confining unit of the injection interval is the Carmel Formation (top depth at 3983', gross thickness of approximately 575'), which is composed of silty sandstone, shale, limestone, and some anhydrite. Three anhydrite zones, located at 4190-4210, 4250-4280, and 4310-4350, exhibit higher minimum horizontal stresses than the injection interval. Therefore, these zones act as barriers to any uphole fracture migration.

The lower confining unit of the injection interval is the Chinle Shale at 5389'.

Also enclosed for your review is an updated cross-section which incorporates the D-14 well, along with a Navajo Structure map.

Please call me if you have any questions.

Sincerely,

Terry D. Burns

Geologist

RGCC

RIVER GAS CORPORATION

August 28, 2000

Mr. Christopher J. Kierst
State of Utah
Department of Natural Resources
Division of Oil, Gas, & Mining
1594 West North Temple St.
Ste. 1210
Box 145801
Salt Lake City, Ut 84114-5801

Re: D-14 Disposal Well
Carbon County, Utah

Dear Mr. Kierst,

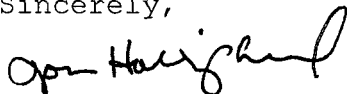
The above well is located in Section 16, Township 15 South, Range 10 East (SLB&M). Pursuant to your August 25, 2000 request, the following mechanical integrity review of the Jensen 16-132, a well within a half-mile radius of the D-14 well, is submitted. Attached is a well-bore schematic that outlines pertinent details about the well's current condition. A cement bond log also is included.

The Jensen 16-132 well was spudded on 3/29/2000 and TD'd on 3/31/2000. Approximately 32 joints of 5½-inch casing were run in the hole, and 170 sacks of cement were used to stabilize the pipe in place. The attached cement log shows good bonding from 810 feet to 1362 feet. On 5/9/2000, completion operations concluded, and the well was placed on-line. At this point, the 5½-inch casing had been perforated & hydraulically stimulated within the Ferron group at depths ranging from 952 feet (top) to 1094 feet (bottom).

In my opinion, the mechanical integrity of the Jensen 16-132 well is intact. The vertical depth separating the D-14 disposal well's top perforated interval and the Jensen 16-132 well's bottom perforated interval is approximately 4170 feet. It is highly unlikely that any communication should occur between these wells since adequate cement bonding exists in both wellbores.

This additional information should satisfy DOGM Regulation 649-5-2, Item Number 2.11. However, please contact me at 205-759-3282 should you have any questions.

Sincerely,



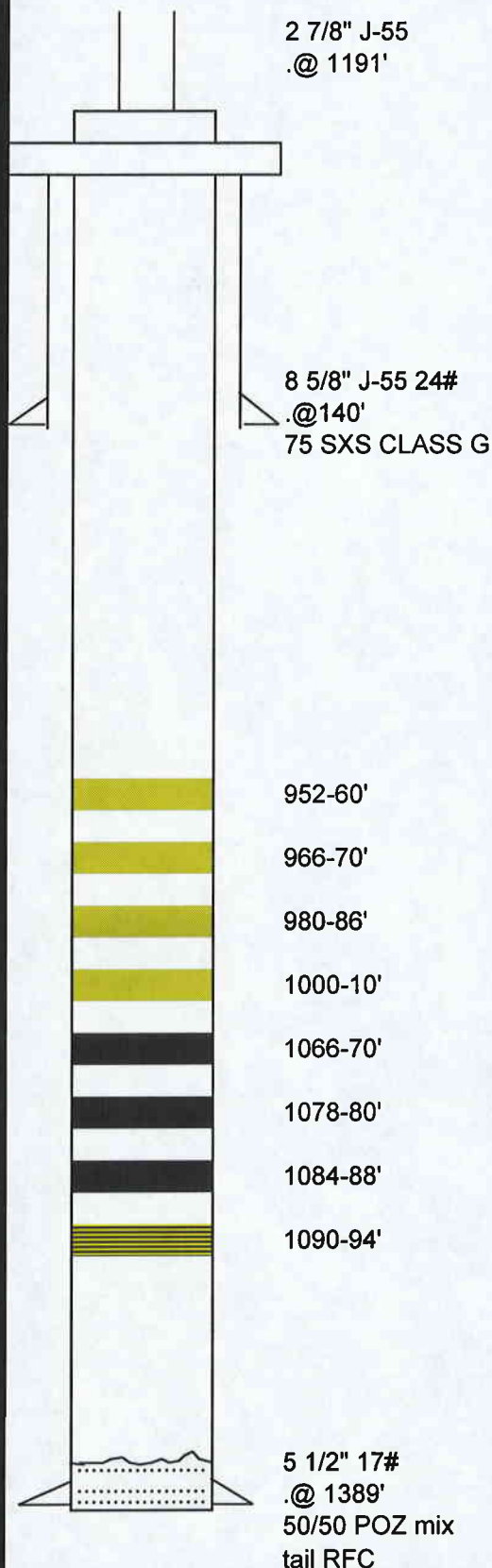
John Hollingshead
Reservoir Engineer

RECEIVED

AUG 29 2000

DIVISION OF
OIL, GAS AND MINING

8/28/2000



JENSEN 16-132

SW/SW, Sec 16, T15S, R10E

CARBON CO., UTAH

ELEV. (Grd):	5576
SPUDDER:	29-Mar-00
TD:	31-Mar-00
TD (Driller):	1395
TD (Logger):	1385

LOGS: GR-DIL-CNL/CDL

CORES: None

PERFORATIONS:

952-60'	4SPF	1084-88'	4SPF
966-70'	4SPF	1090-94'	4SPF
980-86'	4SPF		
1000-10'	4SPF		
1066-70'	4SPF		
1078-80'	4SPF		

STIMULATION: Stage 1 perforations 1066-94'

Stimulated interval with 32,108 gallons of 847 Delta 140 fluid. 78.5k lbs. of 12/20 & 20/40 proppant was used. The ave. rate was 77 bpm at a ave. pressure of 2,100 psi. Breakdown occurred at 1173 psi. A frac gradient of 1.49 psi. was noticed. The ISIP, 5m, & 15m were 1,140psi, 1,027 psi, & 978psi respectively.

Stage 2 perforations 980-1010' plug 1050'

Stimulated interval with 31,961 gallons of 847 Delta 140 fluid. 84k lbs. of 12/20 & 20/40 proppant was used. The ave. rate was 62.4 bpm at a ave. pressure of 1,087 psi. Breakdown was at 1510 psi. A frac gradient of 1.37 psi. was noticed. The ISIP, 5m, & 15m were 930 psi, 816 psi, & 713 psi respectively.

Stage 3 perforations 952-970' plug 975'

Stimulated interval with 28,566 gallons of 847 Delta 140 fluid. 87.1k lbs. of 12/20 & 20/40 proppant was used. The ave. rate was 80 bpm at a ave. pressure of 1,450 psi. Breakdown occurred at 3,828 psi. A frac gradient of 1.47 psi. was noticed. The ISIP, 5m, & 15m were 993 psi, 789 psi, & 672 psi respectively.

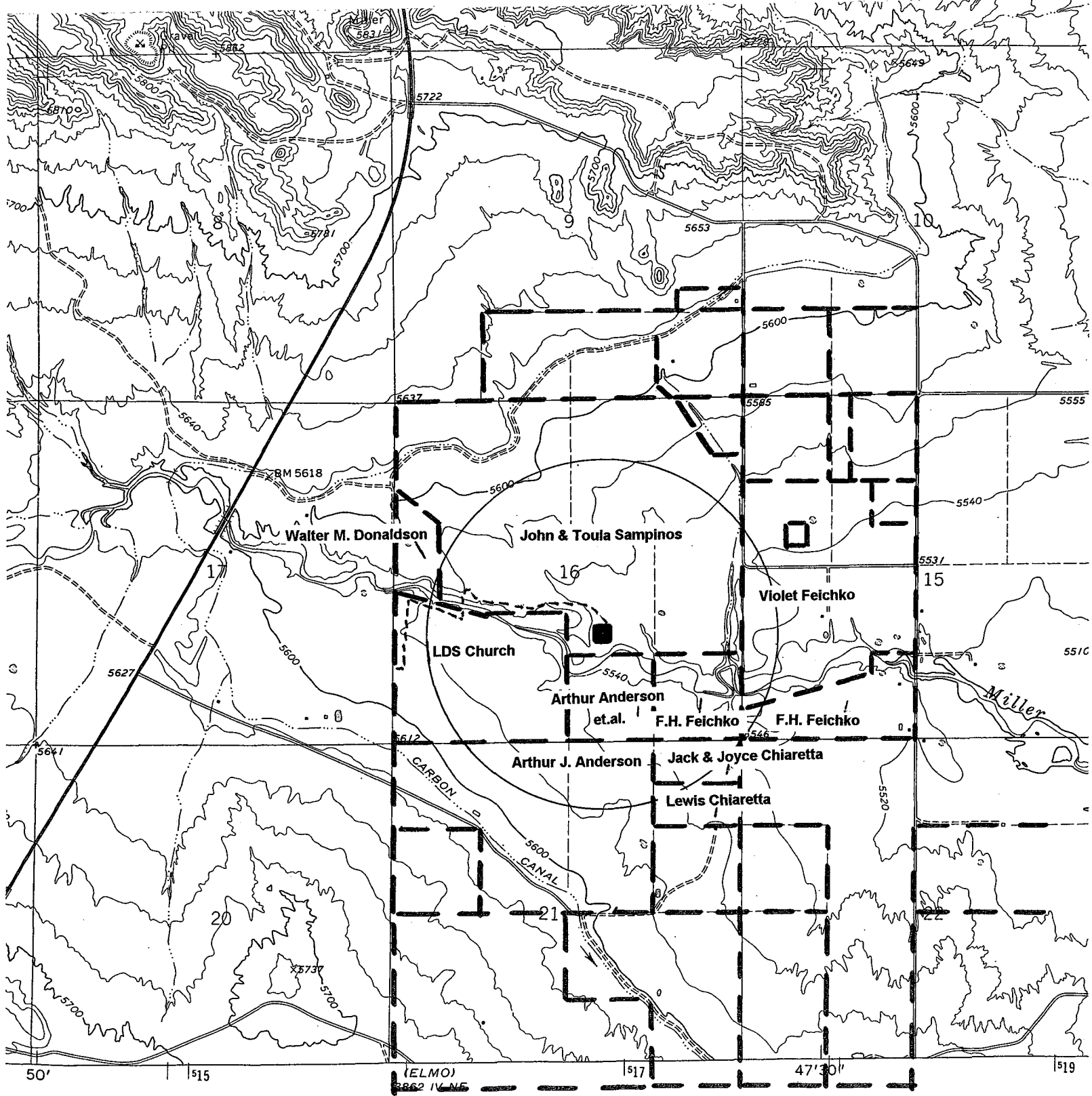
COMMENTS:

From: "Jean Semborski" <jsembors@dwp.rivergas.com>
To: <ckierst@state.ut.us>
Date: 8/28/00 2:15PM
Subject: Ownership Sec. 16, SE1/4SE1/4

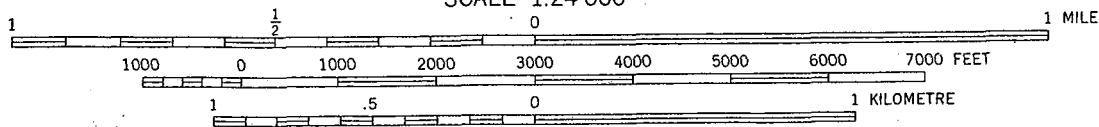
Chris,

The subsurface owner of the SE1/4SE1/4 Sec. 16 is Frank Feichko. He owns 100% of the 40 acres. Please contact me if you need anything else.

WELL # D-14
SURFACE OWNERSHIP MAP - OWNERS WITHIN ½ MILE RADIUS
NW¼ SE¼ SECTION 16, T15S, R10E, SLB&M



SCALE 1:24 000



CONTOUR INTERVAL 20 FEET

From: "Jean Semborski" <jsembors@dwp.rivergas.com>
To: <nrogm.ckierst@state.ut.us>
Date: 8/29/00 10:12AM
Subject: RE: Ownership Sec. 16, SE1/4SE1/4

===== Original Message from nrogm.ckierst@state.ut.us (Chris Kierst) at 8/29/00 7:39 am

>Then my understanding is that, with the exception of River Gas, Frank Fiechko is the only other minerals (subsurface) owner within + mile of the D-14. Is that correct?

>

>>>> "Jean Semborski" <jsembors@dwp.rivergas.com> 08/28/00 02:12PM >>>

>Chris,

>

>The subsurface owner of the SE1/4SE1/4 Sec. 16 is Frank Feichko. He owns

>100% of the 40 acres. Please contact me if you need anything else.

===== Comments by jsembors@RGCDWP (Jean Semborski) at 8/29/00 8:55 am

That is correct. I also e-mailed John Hollingshead your questions.



STIM-LAB, Inc.
7406 North HWY 81
Duncan, Oklahoma 73533
Phone: 580-252-4308
Fax: 580-252-6979
ronhimes@stimlab.com

Ron Himes
Core Flow Dept. Manager

CERTIFICATE OF ANALYSIS

August 29, 2000

Mr. John Hollingshead
River Gas Corp.
511 Energy Center Blvd.
Northport, AL 35473

RE: Water Analysis D-3 Injection Water, Project 5924

PARAMETER NAME	REPORTED RESULT	UNITS	MDL	PQL	ANALYTICAL METHOD	ANALYTICAL DATE
CALCIUM	71.5	mg/l	0.0056	0.017	200.7/6010	08/28/00
MAGNESIUM	30400	ug/l	2.4	7.1	200.7/6010	08/28/00
SODIUM	5550	mg/l	0.022	0.066	200.7/6010	08/28/00
POTASSIUM	25.9	mg/l	0.115	0.345	200.7/6010	08/28/00
IRON	382	ug/l	3.3	10	200.7/6010	08/29/00
TOTAL HARDNESS	181	ug/l	7.0	21.0	200.7/6010	08/27/00
CHLORIDE	4540	mg/l	0.004	0.012	EPA_300.0	08/25/00
ALKALINITY	5120	mg/l	1	3	EPA 310.1	08/22/00
pH	7.92				EPA 180.1	08/22/00
RESISTIVITY	55.6	ohm	1	3	EPA 120.1	08/22/00
SPECIFIC CONDUCTANCE	18000	umho/cm			EPA 120.1	08/22/00
TOTAL DISSOLVED SOLIDS	13000	mg/l	1.0	3.0	EPA 160.1	08/23/00
SPECIFIC GRAVITY*	1.007	@20°C				

*Insufficient sample. value estimated based on TDS as NaCl

By,

Ron Himes
Dept. Manager
Core Flow Dept.

CLB
NYSE

1300 McFarland Blvd. NE, Suite 300
Tuscaloosa, AL 35406
Phone: 205-759-3282
Fax: 205-758-5309

River Gas Corporation

Fax

To: CHRIS KIERST From: JOHN HOLLINGSHEAD
Fax: _____ Pages: 1
Phone: _____ Date: 8-29-00
Re: _____
☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

CHRIS,

ATTACHED IS THE ANALYSIS FOR THE PRODUCED WATER
FROM THE D-3 LOCATION. I WILL CALL YOU TO DISCUSS
IT.

JOHN H.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

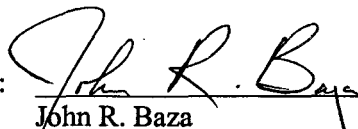
Cause No. UIC-260

Operator: River Gas Corporation
Wells: Sampinos D-14
Location: Section 16, Township 15 South, Range 10 East, Carbon County
API No.: 43-007-30567
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on September 5, 2000
2. Maximum Allowable Injection Pressure: 1,700 psig
3. Maximum Allowable Injection Rate: Contingent upon Maximum Allowable Injection Pressure
4. Injection Interval: 4,558 feet to 5,281 feet (injection into Navajo Sandstone and Wingate Sandstone)
5. River Gas or subsequent operator will, within six months, update the "Drunkards Wash Injection Well Past and Future Performance" study. This modeling study included five injection wells, which were active at the time the report was written. River Gas now has twelve injection wells at Drunkards Wash. The information is necessary to support the permitting and future operation of these injection wells.

Approved by:


John R. Baza
Associate Director, Oil and Gas

September 5, 2000
Date

er

cc: Dan Jackson, Environmental Protection Agency
Carbon County Commission



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

September 5, 2000

River Gas Corporation
P. O. Box 851
Price, UT 84501

Re: Application for Class II Injection Permit, Sampinos D-14 Well, Section 16, Township 15 South, Range 10 East, Carbon County, Utah

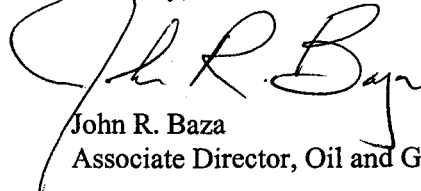
Gentlemen:

Pursuant to Utah Admin. Code §R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code §R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by River Gas Corporation.
3. River Gas or subsequent operator will, within six months, update the "Drunkards Wash Injection Well Past and Future Performance" study. This modeling study included five injection wells, which were active at the time the report was written. River Gas now has twelve injection wells at Drunkards Wash. The information is necessary to support the permitting and future operation of these injection wells.

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at (801) 538-5337.

Sincerely,



John R. Baza
Associate Director, Oil and Gas

er

cc: Dan Jackson, Environmental Protection Agency
Carbon County Commission

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: River Gas Corporation

Well: Sampinos D-14

Location: T15S, R10E, S16, Carbon Co., UT

API: 4300730567

Ownership Issues:

The well is located on private land owned by John and Toulia Sampinos who are represented by Nick Sampinos (435-637-8100) at 190 North Carbon Avenue, Price UT 84501. Affidavits of Notification of surface owners within a half-mile radius have been provided.

Well Integrity:

20", 93#/ft, H-40, ST&C SMLS conductor casing; 3 joints were installed from 0' to 60'. 13 3/8", 48 #/foot, H-40, ST&C SMLS surface casing (7 joints) were installed from surface to 313.1' using 400 sacks of Class G, 2% CaCl and 1/4 #/sack D-29. This resulted in 15#/gallon cement density and a yield of 1.15 cu. ft./sack. 40 barrels of water were displaced and 20 barrels of cement were circulated to surface. 9-5/8", 36#/ft., K-55 LT&C SMLA intermediate casing; 35 joints installed from surface to 1540' and cemented to surface with 275 sacks lead of 50/50 POZ (12.5#/gallon density and 1.92 cu. ft./sack yield), 8% gel, 10% D 44, 1/4 #/sack D-29, 2% S-1 and 90 sacks tail 10-1 RFC (14.2#/gallon, 1.61 cu. ft./sack). This displaced 117 barrels of water and 5 barrels of cement were circulated to surface. 7", 23#/ft., N-80 and C-95, installed from surface to 5466' with 615 sacks 50/50 POZ (12.5#/gallon density and 1.92 cu. ft./sack yield), 8% D-20, 10% D-44 bwow0, 1/4#/sack D-29 and 390 sacks 10-1 RFC (14.2#/gallon density and 1.61 cu. ft./sack yield). The production casing detail is as follows:

Joint	Description	Length	G.L.
1	7" Float Shoe	1.68'	5453'
1	7" 26# J-55	29.69'	5451'
1	7" Float Collar	0.90'	5450'
34	7" 26# J-55	1315.66'	4191'
1	7" Stage Cementing Collar	2.23'	4150'
148	7" 26# J-55	4150.00'	0'

On June 1, 2000 Schlumberger ran a Cement Bond Log from 5417' TD to surface. The indicated bond should be sufficient to prevent any upward migration of fluid between the 7" casing and the borehole wall

Ground Water Protection:

Significant aquifers with high-quality ground water are not expected in the Quaternary Slope Wash covering the Blue Gate Shale Member of the Cretaceous Mancos Shale. A minor groundwater resource may exist in the soil formed on the Quaternary Slope Wash, owing to water saturation along Miller Creek. Conductor, surface, intermediate and injection casing will adequately protect the shallow alluvial sediments. Other subsurface water is unlikely between the surface alluvium and the Cretaceous-age Ferron Sandstone Member of the Mancos Shale. The Ferron Sandstone Member (including the coal measures) is the source of field produced (and injectable) water. The Ferron Sandstone is found 817' below the surface in the subject well. Stim-Lab analyzed Ferron Sandstone Member waters that are currently being injected into the D-3. These are considered representative of that which will be shared, in injection, with the Sampinos D-14 injection well. They tested at 13,000 milligrams/Liter, Total Dissolved Solids. They also conducted compatibility tests on the injectate and connate waters and consider the scaling tendency to be significant. Additional testing is being done.

Some 454 feet of the injection zone (Jurassic age Navajo Sandstone, Kayenta Formation and Wingate Sandstone) was perforated and swabbed. On July 6, 2000 Navajo Sandstone formation water was recovered and on July 7, 2000 Wingate Sandstone samples were gathered. On July 27, 2000 ChemTech reported that the Navajo Sandstone waters, which were encountered at 4,558' in the subject well, tested at 121,000 milligrams/liter total dissolved solids and the Wingate Sandstone tested at 188,000 milligrams/liter total dissolved solids. The Navajo Sandstone is a well-known fresh water aquifer at many locations in the state. In the San Rafael Swell area, the quality of Navajo Sandstone ground water is generally best near outcrop / recharge areas and poorer with increased depth and distance from recharge [Utah State Department of Natural Resources (DNR) Technical Publication # 78]. This premise has been supported by test results on samples taken from the subject well and other disposal wells in the field. Injection of Ferron Sandstone Member produced formation water into the specified formations at this location will result in dilution of more saline Navajo Sandstone formation water.

The proposed operation is expected to have little effect on the overall hydrology of the aquifer because of its great extent compared to the volume of fluid that

will likely be injected. According to DNR Technical Publication #78, the Navajo Sandstone alone contains approximately 94,000,000 acre-feet of water in transient storage. Injection at a rate of 14,400 barrels per day for 10 years would result in approximately 6,775 acre-feet being injected. This equates to about 0.007% of the water already in storage in the Navajo Sandstone and would require at least 143 disposal wells working round the clock for 10 years to inject 1% of the stored volume in the Navajo Sandstone. On July 8, 2000 the perforations were broken down and acidized. Dowell conducted a Step-Rate Test on July 10, 2000. Stim-Lab analyzed the test data and reported the results on July 27, 2000. They reported a fracture parting pressure of 3,990 psi (1,695 psig) at 4.9 bpm resulting in a fracture gradient of 0.75 psi per foot of depth, a figure that reflects the range of values presented in nearby injection wells. River Gas Corporation proposes a Maximum Allowable Pressure of 1,700 psig. The Maximum Allowable Rate will be a function of that pressure. They expect the average injection pressure to approximate the Maximum Allowable Pressure. There is more than 4000' of vertical stratigraphic separation between the injection interval in the D-14 and the bottom of the Jensen 16-132, a newly-drilled Ferron Sandstone Member coal bed methane production well operated by River Gas Corporation, the only other well within a ½ mile radius. In addition, there are strata generally present below the Ferron Sandstone Member production interval, which resist the propagation of fracturing above the injection zone. These include the anhydrites and limestones of the Jurassic Carmel Formation and the Mancos shale below the Ferron Sandstone Member. River Gas has funded studies of the stress regime extant in these rocks and has documentation indicating that they are experiencing more lateral stress, probably attributable to decollement-involved thrust faulting in the anhydrite section, than similar rocks further west. After reviewing the supporting information which the operator provided with the application, it is my conclusion that injection into the Navajo Sandstone, Kayenta Formation, and Wingate Sandstone at this location would result in some dilution of the saline water present in the aquifer and a pressure increase near the well which would dissipate after injection ceases. No long term negative impacts are anticipated as a result of injection of produced water into the subject well.

Oil/Gas & Other Mineral Resources Protection:

The Ferron coal/gas zone is protected by casing and cement. No other known potentially producible zones were encountered by the well. The injection zone is isolated more than 4,000' below the productive interval.

A review of the well records of the Division of Oil, Gas and Mining for the half mile area of review indicated that the existing well bore within a half mile of the proposed disposal well is a shallower Ferron Sandstone Member production well.

Bonding:

River Gas Corporation has an \$80,000 Letter of Credit that provides coverage for plugging this well.

Actions Taken and Further Approvals Needed:

Notice of this application was published in the Salt Lake Tribune and The (Price, UT) Sun Advocate. In addition, copies of the notice were provided to the EPA, BLM (Moab, UT District Office), Carbon County, UT Assessor, and River Gas Corporation. The notice stated the proposed interval for injection includes the Navajo Sandstone and Wingate Sandstone. Any future injection into a formation other than those specified will require administrative approval after appropriate sampling and testing. River Gas or subsequent operator will within six months update the "Drunkards Wash Injection Well Past and Future Performance" study. This modeling study included five injection wells, which were active at the time the report was written. River Gas now has twelve injection wells at Drunkards Wash. The information is necessary to support the permitting and future operation of these injection wells.

A properly designed and constructed injection well, combined with periodic mechanical integrity tests, poses no threat to fresh or useable groundwater supplies. The Division staff recommends approval of this application contingent upon no additional or unforeseen information being presented at the hearing that changes our analysis.

Reviewer(s): Christopher Kierst Date: 9/5/2000

TRANSACTION REPORT

P.01

SEP-07-2000 THU 07:58 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
SEP-07	07:57 PM	14356139782	58"	3	SEND	OK	741	
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State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING
FACSIMILE COVER SHEET

DATE: 9/7/00

FAX #: 435 613 9782

ATTN: Jean Semboriski

COMPANY: River Gas

DEPARTMENT: _____

NUMBER OF PAGES: (INCLUDING THIS ONE) 3

FROM: Earlene Russell 538-5277

If you do not receive all of the pages, or if they are illegible, please call (801) 538-5340.
We are sending from a fax machine.

TRANSACTION REPORT

P.01

SEP-07-2000 THU 08:00 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
SEP-07	07:59 PM	12057593188	1'13"	3	SEND	OK	740	
TOTAL :						1M 13S	PAGES:	3



State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING FACSIMILE COVER SHEET

DATE: 9/7/00

FAX #: (205) 759-3188

ATTN: John Hollingshead

COMPANY: River Gas

DEPARTMENT: _____

NUMBER OF PAGES: (INCLUDING THIS ONE) 3

FROM: Earlene Russell 538-5277

If you do not receive all of the pages, or if they are illegible, please call (801) 538-7223.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and Telephone
Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well
Footages:

1695' FSL, 2133' FEL

QQ, Sec., T., R., M.:

NW/4 SE/4 SEC. 16, T15S, R10E, SLB & M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

Drunkards Wash UTU-67921X

8. Well Name and Number:

Sampinos D14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Drunkards Wash

County: Carbon County

State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA****NOTICE OF INTENT**
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |

☐ Other _____
Approximate date work will start _____**SUBSEQUENT REPORT**
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |

☒ Other Well Report
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL
COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See Attached:

ORIGINAL

13.

Name & Signature: Frankie HathawayFrankie HathawayTitle: Administrative AssistantDate: 6/30/2000

(This space for state use only)

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DRUNKARDS WASH PROJECT

DAILY WELL REPORT

SAMPINOS

D14

API NO: 43-007-30567

NWSE SEC: 16 TWN: 15S RNG: 10E
COUNTY: Carbon
ELEVATION: 5564
DRILLING CONTRACTOR: Ross Well Services

SPUD TIME/DATE: 5/5/00 12:30:00 PM
TD TIME/DATE: 6/24/00 1:30:00 PM
TD DEPTH: 5474
ON-LINE TIME/DATE:

Bit Information

Type	Size	In	Out	Hours	Rotating Hours
Tri-cone	24in	0.00	90.00	7	5
Tri-cone	24in	0.00	60.00	5	4
Air Hammer	17 1/2in	60.00	328.00	18	13
Air Hammer	12 1/4	313.00	1461.00	29	25.75
Tri-cone	12 1/4in	1462.00	1555.00	32.5	22

Conductor Casing

Bore Hole Size: 24in Conductor From: 0.00 To: 60.00
Casing Description: 20in p.e.pipe Number of Joints: 2 Set @: 60.00
Cement: Amount:
Cement Report:

Surface Casing

Bore Hole Size: 17.5in Surface Casing From: 60.00 To: 328.00
Casing Description: 13 3/8in 48#k-55 st&c Number of Joints: 7 Set @: 313.10
Cement: G + 2%S-1 + 1/4#/sk D-29 Amount: 400.00
Cement Report: r/updowell,safety meeting, test lines, pump 100bbl h2o spacer,10bbl gel pill, mix & pump 400sks G cement,displace w/40bbl h2o, close valve @ 9:45pm 5/7/00, 20 bbl cement to surface,

Production Casing

Bore Hole Size: 8 3/4in Prod.Casing From: 1540.00 To: 5474.00
Casing Description: 7in 23# n80 & c-95 Number of Joints: 148 Length: 5466.00
Lead Cement: 50/50 POZ, 8%D20, 10%D44, 2%S001, 1/4#/sk D29 Amount: 615.00
Tail Cement: 10-1 RFC Amount: 390.00
Cement Report: r/up dowell,safety meeting, test lines, pump 10bbl gel pill, 10bbl h2o spacer, mix & pump 65sks 50/50poz,130sks rfc, drop plug,displacew/h2o,drop bomb to open stage tool, circulate around (saw flakes on surface), circulate woc, start second stage,pump 10bbl h2o spacer, mix & pump 550 sks 50/50, 260 sks rfc, drop plug, displace w/ h2o, bump plug @ 1:42pm 6/26/00, 20 bbl cement to surface,

Float Equipment: Centralizers ran on:

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Drilling Data

DAY 1 5/6/00

CURRENT DEPTH: 90 CURRENT OPERATIONS: drilling 12 1/4in pilot hole ROTATING HRS: 7.00
7am-9am move Beeman on location, 9am-12pm r/up, 12pm-7pm p/up 12 1/4in tri-cone drill pilot hole to 90ft, pooh,

Estimated Daily Cost: [REDACTED]

DAY 2 5/7/00

CURRENT DEPTH: 150 CURRENT OPERATIONS: drilling 17 1/2in hole ROTATING HRS: 0.00
7am-11am p/up 24in tri-cone, drill to 60ft, pooh, 11am-1pm rih w/ 60ft 20in conductor pipe, 1pm-1:30pm dump 5yards ready-mix cement behind conductor, 1:30pm-6pm woc, prep to drill 17 1/2in hole, 6pm-1am work on rig, p/up 17 1/2in hammer tih, 1am-7am drilling @ 150ft,

Estimated Daily Cost: [REDACTED]

DAY 3 5/8/00

CURRENT DEPTH: 328 CURRENT OPERATIONS: break loose cement head ROTATING HRS: 0.00
7am-2pm drill 150-328ft, 2pm-3pm clean hole, 3pm-5:30pm pooh laying down collars, 5:30pm-6pm prep to run 13 3/8in casing, 6pm-8:30pm rih w/ 13 3/8in guide shoe + 7jts 13 3/8in casing land casing @ 313.10ft, 8:30pm-8:45pm r/up dowell, 9pm-9:45pm cement 13 3/8in surface casing, close valve @ 9:45pm 5/7/00, 20bbl cement to surface, 9:45pm-7am r/up blouie line, woc

Estimated Daily Cost: [REDACTED]

DAY 4 5/9/00

CURRENT DEPTH: 328 CURRENT OPERATIONS: n/up bop ROTATING HRS: 0.00
7am-8am remove cement head, start to n/up bop, location very muddy could not get around w/ equipment, tearing up location, 8am-7am s/down f/ location to dry

Estimated Daily Cost: [REDACTED]

DAY 5 5/10/00

CURRENT DEPTH: 400 CURRENT OPERATIONS: drilling 12 1/4in hole @ 400ft ROTATING HRS: 4.25
7am-6pm n/up bop & manifold, run blooie line, 6pm-7pm r/up tester, 7pm-8pm retighten flange bolts, 8pm-9pm test bop, manifold & casing, 9pm-1:30am break down hammer, p/up new hammer, 1:30am-2:45am tih, tag cement @ 240ft, 2:45am-4am drill out cement, 4am-7am drill 12 1/4in hole to 400ft

Estimated Daily Cost: [REDACTED]

DAY 6 5/11/00

CURRENT DEPTH: 1492 CURRENT OPERATIONS: prep to mud up ROTATING HRS: 0.00
7am-7pm drill 400ft-1050ft, 7pm-4:30am drill 1050ft-1492ft, hole sloughing in on hammer, 4:30am-7am p/up & prep to mud up hole,

Estimated Daily Cost: [REDACTED]

DAY 7 5/12/00

CURRENT DEPTH: 1462 CURRENT OPERATIONS: drilling @ 1462 ROTATING HRS: 4.50
7am-12pm r/up lines & wait on mud equipment to arrive, 12pm-5pm set mud equipment, 5pm-8pm mix mud, 8pm-10:30pm tooh to change bit, 10:30pm-2:30am change bit rih, 2:30am-6:30am tag 90ft fill mix tub of mud, 6:30am-7am drilling on new hole @ 1462

Estimated Daily Cost: [REDACTED]

DAY 8 5/13/00

CURRENT DEPTH: 1555 CURRENT OPERATIONS: tooh ROTATING HRS: 17.5
7am-10am drill 12 1/4in hole 1462-1472ft, (pump acting up low pump pressure), 10am-2pm drill 1472-1493ft (pump working better), 2pm-4pm drill 1493-1508ft working on pump, 4pm-7pm drill 1508-1520ft, 7pm-11pm drill 1520-1535ft, 11pm-11:30pm work on packing, 11:30pm-1am drill 1535-1555ft, 1am-2am circulate on bottom, 2am-4am short trip to 1000ft, 4am-4:30am work on packing, 4:30am-5:30am circulate on bottom 5:30am-7am tooh

Estimated Daily Cost: [REDACTED]

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DAY 9 5/14/00

CURRENT DEPTH: 1555 **CURRENT OPERATIONS:** woc

ROTATING HRS: 0.00

7am-10am finish tooh laying down pipe, & collars, 10am-10:30am r/up loggers, 10:30am-12pm log well, 12pm-12:30pm r/down loggers, 12:30pm-1pm r/up casing crew, 1pm-1:30pm float shoe cracked wait on another, 1:30pm-5:30pm p/up 9 5/8in float shoe, 1jt 9 5/8in csg, 9 5/8in float collar, + 34 jts 9 5/8in csg, rih land casing @ 1542ft g.l., 5:30pm-6:30pm r/up dowell, 6:30pm-7:35pm cement intermediate casing, bump plug @ 7:35pm 5/13/00, 6bbl good cement to surface, 7:35pm-7am woc,

Estimated Daily Cost: [REDACTED]

DAY 10 5/15/00

CURRENT DEPTH: 1555 **CURRENT OPERATIONS:** n/down bop

ROTATING HRS: 0.00

7am-3pm n/down bop, r/down, start moving to d-9, 3pm-7am s/down

Estimated Daily Cost: [REDACTED]

DAY 11 5/16/00

CURRENT DEPTH: 1555 **CURRENT OPERATIONS:** no activity

ROTATING HRS: 0.00

7am-7am no activity

Estimated Daily Cost: [REDACTED]

DAY 12 5/26/00

CURRENT DEPTH: 1555 **CURRENT OPERATIONS:** prep f/cyclone

ROTATING HRS: 0.00

7am-7pm prep f/ cyclone, cut off casing & weld on casing head,

Estimated Daily Cost: [REDACTED]

DAY 13 6/6/00

CURRENT DEPTH: 1540 **CURRENT OPERATIONS:** r/up cyclonerig#12

ROTATING HRS: 0.00

7am-7pm move cyclone rig #12 on location, start r/up,

Estimated Daily Cost: [REDACTED]

DAY 14 6/7/00

CURRENT DEPTH: 1540 **CURRENT OPERATIONS:**

ROTATING HRS: 0.00

7am-1pm r/up rig, 1pm-6:30pm n/up bop, manifold, & flow lines, 6:30pm-7:30pm test kelly, 7:30pm-9:30pm drill rathole & mouse hole, 9:30pm-1am test bop, manifold & casing, 1am-4am mousehole binding redrill, 4am-7am tally drill collars & rih w/ 8 3/4in smith f3h s# lr4300, bitsub, bit saver, +21 5 3/4in drill collars,

Estimated Daily Cost: [REDACTED]

DAY 15 6/8/00

CURRENT DEPTH: 1800 **CURRENT OPERATIONS:** drilling 8 3/4in hole @ 1800ft

ROTATING HRS: 13.0

7am-1:30pm p/up drill pipe tih, tag @ 1543ft, 1:30pm-7pm circulate & mix mud (wt.8.5, visc.43), drill thru float collar, 7pm-10:15pm drill out cement, 10:15pm-11pm drill out float shoe, 11pm-4am drill 8 3/4in hole 1743ft, 4am-4:30am service rig, 4:30am-7am drill 1743-1800ft (visc.48, mud wt. 8.6, f.l. 7.2)

Estimated Daily Cost: [REDACTED]

DAY 16 6/9/00

CURRENT DEPTH: 2178 **CURRENT OPERATIONS:** drilling 8 3/4in hole @ 2190ft

ROTATING HRS: 22.7

7am-11:30am drill 1800-1899ft, 11:30am-12pm drop survey, 1.5deg @ 1855ft, 12pm-5pm drill 1899-1983ft, 5pm-7pm 1983-2010ft, 7pm-3:15am drill 2010-2146ft, 3:15am-3:30am service rig, 3:30am-4am drop survey 2.75deg. (back off weight to 25-27), 4am-7am drill 2146-2178ft, mud wt.8.8ppg, viscosity 46, yield 10, f.l. 8.4, wt on bit 25-27, rpm 60, pump psi 750, (should go into morrisson around 2245)

Estimated Daily Cost: [REDACTED]

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DAY 17 6/10/00

CURRENT DEPTH: 2398 CURRENT OPERATIONS: drilling @ 2398 ROTATING HRS: 23.0
7am-10am drill 2177-2208ft, 10am-10:15am service rig, check bop, 10:15am-7pm drill 2208-2317ft, 7pm-1:15am
drill 2317-2357ft, p/up pump pressure to 950psi, 1:15am-1:30am service rig, 1:30am-2am drop survey 2deg @
2320ft, 2am-7am drill 2357-2398ft, rpm 52, (pump psi 950, visc43, mud wt 8.8, fluid loss 8.2, solids 3%),

Estimated Daily Cost:

DAY 18 6/11/00

CURRENT DEPTH: 2566 CURRENT OPERATIONS: drilling @ 2566ft ROTATING HRS: 23.5
7am-9:30am drill 2398-2420ft, 9:30am-9:45am service rig & check bop, 9:45am-7pm drill 2420-2495ft, 7pm-11pm
drill 2495-2517ft, 11pm-3:30am drill 2517-2545ft, 3:30am-3:45am service rig, 3:45am-7am drill 2545-2566ft,
wt on bit 32,000, pump psi 950-1000#, rpm 55, visc 45, mud wt 8.8, fl 8

Estimated Daily Cost:

DAY 19 6/12/00

CURRENT DEPTH: 2688 CURRENT OPERATIONS: tripping in hole ROTATING HRS: 16.0
7am-12:45pm drill 2566-2605ft, 12:45pm-1pm take survey 2 1/2deg @ 2561ft, 1pm-1:15pm service
rig, 1:15pm-6pm drill 2605-2649ft, 6pm-11pm drill 2649-2688ft, 11pm-11:15pm drop survey, prep to tooh,
11:15pm-1:30am tooh, 1:30am-2am check bop, look @ old bit, 2am-3:30am tih w/ drill collars, 3:30am-4:30am
unplug collars, 4:30am-5:30am p/up more collars, 5:30am-6:30am cut drill line, 6:30am-7am tih w/drill pipe,

Estimated Daily Cost:

DAY 20 6/13/00

CURRENT DEPTH: 2864 CURRENT OPERATIONS: drilling @ 2864ft ROTATING HRS: 22.5
7am-8am ream last 90ft to bottom 4ft fill, adjust depth, one jt off before tallying out actual depth 2658 ,
8am-10:45am drill 2658-2686ft, 10:45am-11am service rig, 11am-1:30pm drill 2686-2712ft, 1:30pm-7pm drill
2712-2770ft into summerville formation, 7pm-10pm drill 2770-2794, 10pm-3:45am drill 2794-2841ft, 3:45am-4am
service rig, 4am-7am drill 2841-2864ft, (mud wt 8.7, visc 51, fl 10.1, wt on bit 37-38000, rpm 60-62, pump psi
1050-1100

Estimated Daily Cost:

DAY 21 6/14/00

CURRENT DEPTH: 3115 CURRENT OPERATIONS: drilling @ 3115 ROTATING HRS: 23.2
7am-10:45am drill 2864-2900ft, 10:45am-11am drop survey 3 1/4deg @ 2856ft, back off wt, 11am-5pm drill
2900-2962ft, 5pm-5:15pm service rig, 5:15pm service rig, 5:15pm-7pm drill 2962-2980, 7pm-1:30am
drill-2980-3055ft, 1:30am-1:45am service rig, 1:45am-7am drill 3055-3113, visc 44, mud wt 8.7, fl 8.8, wt on bit
32000, rpm 66, pump psi 1150

Estimated Daily Cost:

DAY 22 6/15/00

CURRENT DEPTH: 3373 CURRENT OPERATIONS: drilling @ 3373 ft ROTATING HRS: 23.5
7am-10am drill 3115-3149, 10am-10:15am drop survey, 1deg @ 3105ft, 10:15am-1:30pm drill 3149-3181,
1:30pm-7pm drill 3181-3237ft, 7pm-10:30pm drill 3237-3269ft, 10:30pm-7am drill 3269-3373,
mud wt 8.9-9#, visc 47, f loss 9, wt on bit 36-38000#, rpm 66, pump psi 1150-1200

Estimated Daily Cost:

DAY 23 6/16/00

CURRENT DEPTH: 3567 CURRENT OPERATIONS: drilling @ 3567ft ROTATING HRS: 23.0
7am-9:30am drill 3373-3401, 9:30am-10am drop survey 1deg @ 3361, 10am-12:30pm drill 3401-3422ft,
12:30pm-1:30pm drill 3422-3431ft, 1:30pm-2pm service rig, 2pm-7pm drill 3431-3469ft, 7pm-10:30pm drill
369-3498ft, 10:30am-7am drill 3498-3567ft, mud wt 8.9, visc 45, f loss 8.2, wton bit 36-40000, rpm 64-66, pump
psi 1100-1200

Estimated Daily Cost:

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DAY 24 6/17/00

CURRENT DEPTH: 3738 CURRENT OPERATIONS: drilling @ 3738ft ROTATING HRS: 23.5
7am-1:45pm drill 3567-3620ft, 1:45pm-2pm service rig, 2pm-7pm drill 3620-3658ft, 7pm-3am drill 3658-3712ft,
3am-3:15am service rig, 3:15am-7am drill 3712-3738ft, mud wt 9.0, visc 44, fl 7.2, wt on bit 40000, pump psi
1150#

Estimated Daily Cost:

DAY 25 6/18/00

CURRENT DEPTH: 3875 CURRENT OPERATIONS: drilling @ 3875ft ROTATING HRS: 12.0
7am-11:30am drill 3738-3770ft, 11:30am-11:45am drop survey 1deg @ 3730ft, 11:45am-2pm tool f/bit, tight hole
@ 1870-1720ft, 2pm-2:15pm service rig & check bop, 2:15pm-3:15pm p/up new 8 3/4 bit f4 s# LX5141, tih w/ drill
collars added 3 more collars, 3:15pm-4:15pm clean suction tanks, 4:15pm-4:30pm tih, 4:30pm-5:30pm wash &
ream 1750-1880ft, 5:30pm-5:45pm tih, 5:45pm-6pm wash & ream 2030-2090ft, 6pm-7pm tih, wash & ream last
70ft, (42ft fill), 7pm-2:30am drill 3770-3828ft, 2:30am-2:45am service rig, 2:45am-7am drill 3828-3875ft,

Estimated Daily Cost:

DAY 26 6/19/00

CURRENT DEPTH: 4084 CURRENT OPERATIONS: drilling @ 4084ft ROTATING HRS: 23.5
7am-12:45pm drill 3875-3921ft, 12:45pm-1pm service rig, 1pm-7pm drill 3921-3972ft, 7pm-2:30am drill
3972-4046ft, 2:30am-2:45am service rig, 2:45am-7am drill 4046-4084ft, (mud wt 9#, visc 45, f loss 7.8, wt on bit
42-45000, rpm 66, pump psi 1150,)

Estimated Daily Cost:

DAY 27 6/20/00

CURRENT DEPTH: 4212 CURRENT OPERATIONS: drilling @ 4212ft ROTATING HRS: 22.2
7am-12:15pm drill 4084-4141ft, 12:15pm-12:30pm service rig, 12:30pm-2:30pm drill 4141-4164ft, 2:30pm-7pm drill
4164-4209ft, 7pm-9pm drill 4209-4224ft, 9pm-10pm change out rotary chain, 10pm-11pm drill 4224-4234ft,
11pm-5am drill 4234-4297, hit drilling break 4280, 5am-5:30am take survey 1 1/4deg @ 4270, 5:30am-7am drill
4297-4312
mud wt 9#, visc 42, floss 8, wt on bit 40-45000, rpm 66, pump psi 1150# (note: adjusted cost of daywork on this
report)

Estimated Daily Cost:

DAY 28 6/21/00

CURRENT DEPTH: 4525 CURRENT OPERATIONS: drilling @ 4525ft ROTATING HRS: 23.2
7am-3:45pm drill 4312-4391ft, 3:45pm-4pm service rig, check bop, 4pm-7pm drill 4391-4422ft, 7pm-2am drill
4422-4483ft, 2am-2:30am service rig, 2:30am-7am drill 4483-4525ft

Estimated Daily Cost:

DAY 29 6/22/00

CURRENT DEPTH: 4957 CURRENT OPERATIONS: drilling @ 4957ft ROTATING HRS: 23.0
7am-12:15pm drill 4525-4575ft, 12:15pm-12:30pm service rig, 12:30pm-6pm drill 4575-4713ft, (est top of navajo
4575ft), unload 3 loads of 7in csg (n-80 & c-95 mixed 23# range 2 & 3), 6pm-10:30pm drill 4713-4791ft,
10:30pm-11pm drop survey 1 1/4deg @ 4747ft, 11pm-12am drill 4791-4822ft, 12am-12:15am service rig,
12:15am-7am drill 4822-4957ft, (mud wt. 9.3+, visc 44, f loss 9, wt on bit 44-46000, rpm 66, pump psi 1250

Estimated Daily Cost:

DAY 30 6/23/00

CURRENT DEPTH: 5250 CURRENT OPERATIONS: drilling @ 5250ft ROTATING HRS: 23.0
7am-1pm drill 4957-5010ft, 1pm-1:15pm service rig, 1:15pm-7pm drill 5010-5110ft, 7pm-9:45pm drill 5110-5154ft,
9:45pm-10:15pm service rig, check bop, 10:15pm-10:30pm #2 pump aired up, 10:30pm-7am drill 5154-5250ft
mud wt 9.1ppg, visc 42, floss 8.2, wt on bit 44-45000, rpm 66, pump psi 1250

Estimated Daily Cost:

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DAY 31 6/24/00

CURRENT DEPTH: 5421 CURRENT OPERATIONS: drilling @ 5421ft ROTATING HRS: 16.5
7am-1pm drill 5250-5321, 1pm-1:15pm drop survey 1deg @ 5277ft, 1:15pm-4:15pm tool f/bit, 4:15pm-4:45pm
check bop, 4:45pm-5:15pm service rig, 5:15pm-7pm p/up bit 8 3/4in smith f4 sn# LX6691, jetted w/ 12,13,12,
7pm-8pm finish tih, 8pm-8:30pm wash last 60ft to bottom (6ft fill), 8:30pm-2am drill 5321-5384ft, 2am-2:15am
service rig, 2:15am-7am drill 5384-5421ft (mud wt 9.2ppg, visc 48, f loss 6.4, wt on bit 40-45000, rpm 66, pump
psi 1250,

Estimated Daily Cost: [REDACTED]

DAY 32 6/25/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: tih w/ drill pipe ROTATING HRS: 6.50
7am-1:30pm drill 5421-5474ft, td @ 5474 @ 1:30pm 6/24/00, 1:30pm-3:30pm circulate on bottom, conditioning
mud, 3:30pm-5:45pm short trip to 2375ft, back to bottom no fill, 5:45pm-7:45pm circulate on bottom, pump gel
sweep, 7:45pm-10:30pm tool to log, 10:30pm-11pm r/up loggers, 11pm-6am log well, 6am-6:30am r/down
loggers, 6:30am-7am start tih,

Estimated Daily Cost: [REDACTED]

DAY 33 6/26/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: circulating ROTATING HRS: 0.00
7am-9am finish tih, no fill, 9am-11:30am circulate on bottom, 11:30am-12:30pm r/up lay down machine,
12:30pm-5pm pooh laying down drill pipe & drill collars, 5pm-6pm n/down rotating head & extension, 6pm-6:30pm
r/up casing crew, 6:30pm-11pm rih w/ 7in float shoe, float collar, +148jts 7in csg, land csg @ 5453ft,
11pm-12am r/up dowell & circulate, r/down casing crew, 12am-1:10am cement first stage, bump plug @ 1:10am
6/26/00, 1:10am-1:35am drop bomb to open stage tool, 1:35am-7am circulate hole,

Estimated Daily Cost: [REDACTED]

DAY 34 6/27/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: moving off location ROTATING HRS: 0.00
7am-12pm woc, 12pm-1:45pm cement second stage, bump plug @ 1:42pm 6/26/00, 20bbl cement to
surface, 1:45pm-3pm r/down dowell, n/down bop, 3pm-4pm set casing slips & cut off casing, 4pm-5:30pm clean
mud tanks, release rig @ 5:30pm 6/26/00, 5:30pm-7am r/down & prep to move,

Estimated Daily Cost: [REDACTED]

DAY 35 6/28/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: r/up to drill out stage tool ROTATING HRS: 0.00
7am-7pm r/down & move off location,

Estimated Daily Cost: [REDACTED]

DAY 36 6/29/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: drill out dv tool ROTATING HRS: 0.00
road rig to location, had backhoe clean up around well head, spot rig waited on casing to be cut (6 hrs.) nipped
up bop moved drill colars nipped up change over flange picked up 6 1/8 bit drill colars & 121 jts. Of 2 7/8 shut
down for night.

Estimated Daily Cost: [REDACTED]

DAY 37 6/30/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: scraper run ROTATING HRS: 0.00
picked up 3 jts. Tagged cement @ 4035 picked up power swivel & drilled down & threw dv tool picked up 22 more
jts. tagged cement @ 5408 picked up power swivel & drilled down 8 1/2 ft. tripped out of hole & laid down drill
colars, shut down for night.

Estimated Daily Cost: [REDACTED]

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DAY 38 7/1/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: running bond log ROTATING HRS: 0.00
run 6 1/4 scraper tripped in hole with tubing, tagged up @ 5416, tripped out laid down scraper shut down for night.

Estimated Daily Cost: [REDACTED]

DAY 39 7/2/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: none ROTATING HRS: 0.00
rigged up schlumberger, helped unspull line 3 hrs. held 1000 psi on casing logged well rigged down loggers shut down for night.

Estimated Daily Cost: [REDACTED]

DAY 40 7/6/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: scraper run ROTATING HRS: 0.00
rigged up schlumberger to perforate @ 5264-5281, 5147-5167, 5026-5110, 5110-5120, 4986-4996, 4913-4942, 4883-4903, 4761-4878, 4707-4747, 4656-4697, 4558-4644, run in hole with scraper to top perf. Shut for night.

Estimated Daily Cost: [REDACTED]

DAY 41 7/7/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: completion ROTATING HRS: 0.00
run in hole with scraper after perforating tripped out, run in with bridge plug & packer, set @ (bridge plug- 4650, packer @ 4530) rigged up to swab, poured new rope socket, run in hole to swab fluid level @ 100ft from surface, swabbed 177 bbls. Of water weight of water 8.8# took sample put on ice shut down for night.

Estimated Daily Cost: [REDACTED]

DAY 42 7/8/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: setting wellhead ROTATING HRS: 0.00
rigged down swab line moved packer & bridge plug 4650-4530, to bridged plug 5173- packer @ 5004 rigged up swab line & swabbed 9 runs (fl. Level @ 1250) dry after runs waited 1 hr. for fluid level to rise fluid @ 2400, recovered 43 bbls. Of water, caught samples rigged down swab equipment, tried to unset packer could not unset filled backside with water unset packer caught bridge plug & tripped out with tubing laid down plug & tripped back in with packer set @ 4530 tested packer to 1000 psi shut in for night. Last sample 9.1 #,

Estimated Daily Cost: [REDACTED]

DAY 44 7/8/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: injection test ROTATING HRS: 0.00
norther lights set pressure gauges, @ 5300.

Estimated Daily Cost: [REDACTED]

RECEIVED

SEP 08 2000

**DIVISION OF
OIL, GAS AND MINING**

DAY 45 7/9/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: gauges testing for 7 days ROTATING HRS: 0.00
rigged up dowell to pressure test well

	max press.	Start press.	End press.
pumped 1/2 bbl. Per min.	796	0	796
watched fall off pressure; 5 min. 14psi, 7min. 0,			
pumped 350 bbls @ 10 bbls per min.		0	952
fall off press. 5min. 1396, 10min. 1295, 15min. 1204, 20min. 1108, 25min. 1035, 30min. 952			

		max press.	Start press.	End press.
1 bpm	60min	1083	952	1048
2bpm	60min	1433	952	1433
3bpm	60min	1616	1433	1616
4bpm	60min	1634	1616	1483
(400 psi drop off @ 12:08 pm)				
5bpm	60min	1700	1483	1698
6bpm	60min	1703	1698	1765
8 bpm	30min	1776	1765	1776
10 bpm	30min	1853	1776	1858
12bpm	15min	1926	1858	1894
14bpm	15min	1991	1894	1955
16bpm	15min	2032	1955	2032
isip. 5min. 1556, 10min. 1446, 15min. 1373, 20min. 1291, 25min. 1250, 30min. 1176,				

Estimated Daily Cost: [REDACTED]

DAY 43 7/9/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: setting gauges ROTATING HRS: 0.00
rigged up dowell acidized rigged down dowell, tripped out with packer laying down tubing nipple down bop & set wellhead, rigged down rig shut in for night.

Estimated Daily Cost: [REDACTED]

DAY 46 7/18/00

CURRENT DEPTH: 5474 CURRENT OPERATIONS: none ROTATING HRS: 0.00
rigged up norter lights & pulled gauges out rigged down shut in well.

Estimated Daily Cost: [REDACTED]

Cum. Estimated Daily Cost: [REDACTED]

Frac Data

Completion Data

RECEIVED

SEP 08 2000

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Sampinos D-14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Undesignated

1. Type of Well: OIL ☐ GAS ☒ OTHER: Water Disposal Well

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well

Footages: 1695' FSL, 2133' FEL

QQ, Sec., T., R., M.: NW/SE SEC. 16, T15S, R10E, SLB & M

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>MAXIMUM INJECTION PRESSURE INCREASE</u> | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

RIVER GAS RESPECTFULLY REQUESTS THAT THE MAXIMUM INJECTION PRESSURE FOR THIS WELL BE INCREASED TO 2000 PSIG.. AS DISCUSSED IN THE ATTACHED STIM-LAB REPORT, FLUID CONTAINMENT IS CONFIDENTLY ISOLATED WITHIN THE NAVAJO FORMATION AT PRESSURES OF AND BELOW 2250 PSIG.

Approved by the
Utah Division of
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 9-20-00

Initials: CHD

Date: 9/13/00

By: [Signature]

13.

Name & Signature: John Hollingshead

Title: Reservoir Engineer

Date: 9-13-2000

(This space for state use only)

ANALYSIS OF THE STEP
RATE TEST IN WELL D-14
AT DRUNKARD'S WASH

PREPARED FOR:

RIVER GAS CORPORATION
1300 MCFARLAND BLVD., STE. 300
TUSCALOOSA, ALABAMA 35406

PREPARED BY:

MICHAEL W. CONWAY
STIM-LAB, INC.
7406 NORTH HWY 81
DUNCAN, OKLAHOMA 73534

P.O. NUMBER: VERBAL/JOHN HOLLINGSHEAD
FILE NUMBER: SL-5205

JULY 27, 2000

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM SAMPLES AND LOGS WHICH WERE SUPPLIED. WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

ANALYSIS OF THE STEP RATE INJECTION TEST CONDUCTED IN WELL D-14 AT DRUNKARD'S WASH

Well D-14 was completed in June 2000 and a step rate test was conducted on July 10, 2000 to determine the fracture parting pressure in the Navajo sandstone. Both the Navajo and Wingate sandstones were opened through perforations at the depths shown in Table 1.

The well was acidized by setting a packer at 4530' and 2500 gal of 15% HCl was pumped at an average rate of 6 BPM with 2000 ball sealers. This change in the approach to breaking down the well was undertaken because of the previous problems with zonal isolation when separate acidizing stages were attempted and is the same procedure as used in D-11. Some ball action was noted.

A total of about 2757 barrels of water was then injected in a short, high rate breakdown and a step rate test. After the short injection at 10 BPM and shut-in, the step rate test was started at 1 BPM and continued up to the maximum rate. The surface and bottom hole recorded data from the injection phase is shown in Figure 1. The rates were varied from about 1 to a maximum of 16 BPM

Table 1 - Perforation Placement in Well D-14

Perforation Location (ft)
4558-4644
4656-4697
4707-4747
4761-4878
4883-4903
4913-4942
5026-5110
5147-5167
5264-5281

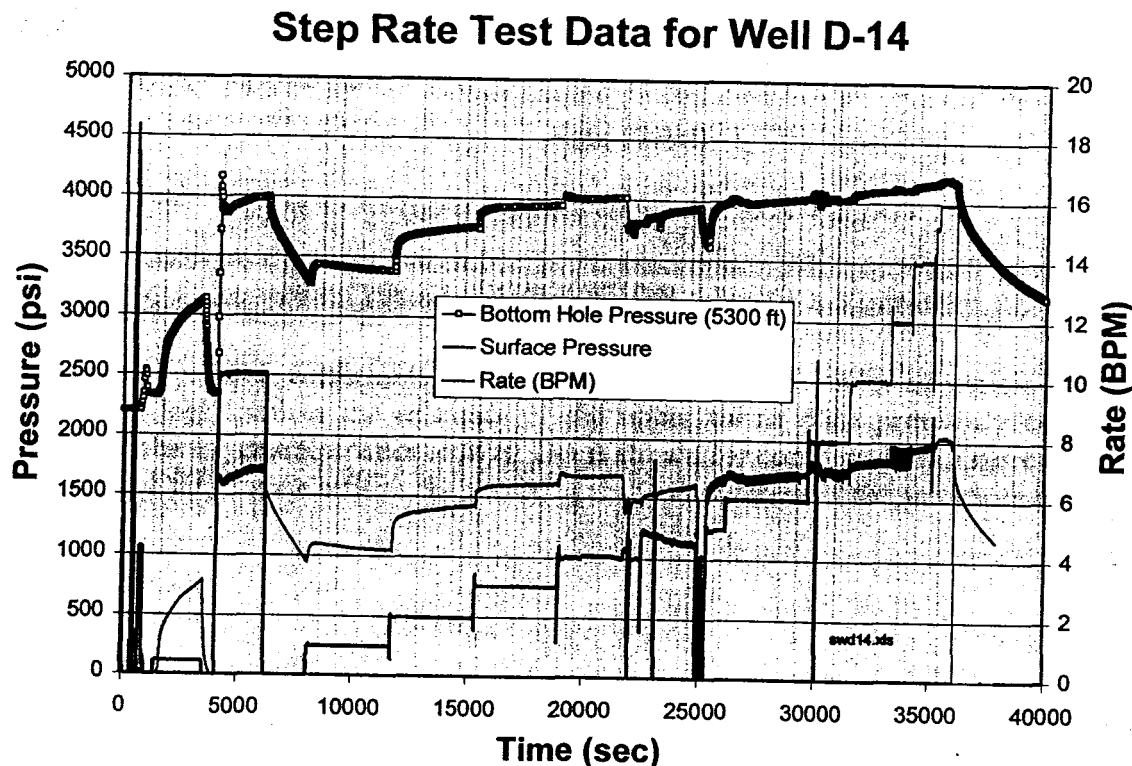


Figure 1 - Step Rate data for test performed on Well D-14.

The initial pressure was 2200 psi at a gauge depth of 5300'. This is an initial pore pressure gradient of 0.415, which is somewhat higher than the 0.388 psi/ft gradient seen in D-3. The analysis of the pressure data from the downhole gauge shows an ultimate fracture extension pressure of 3990 psi which is a gradient of 0.75 psi/ft. The traditional rate-pressure plot is given in Figure 2. A comparison with Well D-3 and D-11 shows that D-14 is intermediate in stress between those wells with a fracture parting pressure equivalent to a surface injection pressure of 1695 psi. These three wells are in compression while all other wells are in tension. This is consistent with the stress model proposed for the Navajo Formation in Drunkard's Wash.

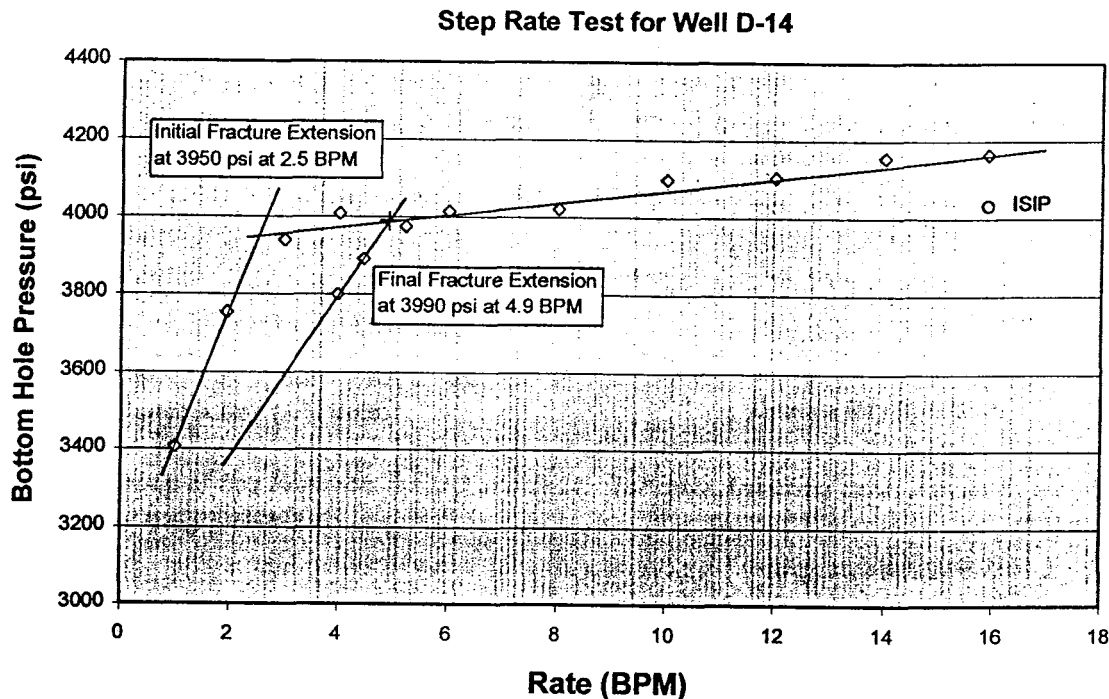


Figure 2 - Analysis of Step Rate Test Conducted in Well D-14

CONCLUSION

The comparison to D-3 confirms that the Navajo sandstone is in compression at this well location. Well logs confirm the existence of the upper thrust plate previously described. A comparison of the log characteristics to Well D-3 is shown for comparison in Figure 3. The high stress state in the target zone reflects the thrusting that has occurred in the anhydrite layer.

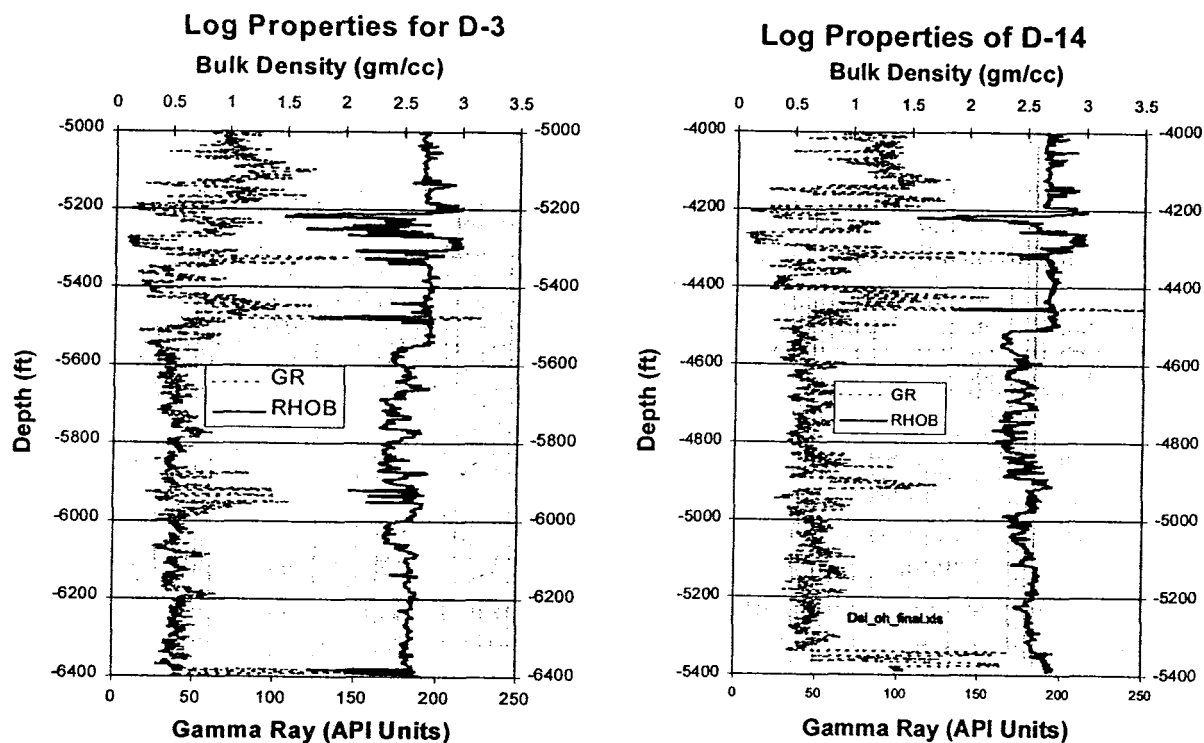


Figure 3 - Comparison of Log Properties for D-3 and D-14. The three Anhydrite zones are clearly recognized by their density which is approximately 3

The reservoir pressure and stress state in all the Navajo Disposal Wells in Drunkard's Wash is summarized in Table 2. D-14 is the shallowest of the wells and still shows to have very high stress in the Anhydrite cap. The stress state in the target zone in this well is very high but so is the stress in the bounding layers. With this many wells in place, the original explanation of the source of the stresses still remains valid and gives good confidence that the Navajo Sandstone is well isolated from all zones above the anhydrite cap at the injection pressures being used. We recommend that an initial wellhead limit of 2250 psi be established for this well.

Table 2: Summary of Reservoir Stresses in Navajo Disposal Wells in Drunkards Wash

Well Name	Lower Plate Anhydrite	Reservoir Pressure Gradient	Closure Pressure in Anhydrite in Lower Plate ⁽¹⁾		
	(ft)	(psi/ft)	BHP	Surface (psi)	(psi/ft)
D-1	5410	0.394	4780	2437	0.884
D-2	6884	0.350	6150	3169	0.893
D-3	5285	0.388	6675	4387	1.263
D-4	5762	0.412	4800	2305	0.833
D-5	6707	0.351	5525	2621	0.824
D-6	6799	0.347	5600	2656	0.824
D-7	5412	0.439	4900	2557	0.905
D-8	5750	0.443	5000	2510	0.870
D-10	6550	0.375	5180	2344	0.791
D-11	4823	0.393	6900	4812	1.431
D-14	4290	0.415	6245	4387	1.456

⁽¹⁾Lower Plate stress calculated by assuming closure pressure in Navajo is 250-350 psi lower than the fracture extension pressure.

Michael W. Conway, Ph.D.

July 27, 2000

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR River Gas Corporation
ADDRESS 6825 S. 5300 W. P.O. Box 851
Price, UT 84501

OPERATOR ACCT. NO. _____

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12729	43-007-30567	Sampinos D-14	NWSE	16	15S	10E	Carbon	5/5/00	5/1/00
WELL 1 COMMENTS: New single well, new spud outside PA but within Unit boundary 5-18-00 CONFIDENTIAL											
B	99999	12771	43-007-30438	Utah D-9	SENW	32	14S	09E	Carbon	5/22/00	5/1/00
WELL 2 COMMENTS: New single well, new spud outside PA but within Unit boundary 6-23-00 CONFIDENTIAL											
B	99999	11256	43-015-30399	Utah 04-281	SWSW	04	16S	09E	Emery	6/15/00	5/1/00
WELL 3 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL											
B	99999	11256	43-015-30397	Utah 09-360	SWSW	09	16S	09E	Emery	6/16/00	5/1/00
WELL 4 COMMENTS: New single well, new spud outside PA but within Unit boundary CONFIDENTIAL											
B	99999	11256	43-015-30408	Utah 09-361	NWSE	09	16S	09E	Emery	6/18/00	5/1/00
WELL 5 COMMENTS: New single well, new spud outside PA but within Unit boundary 4-8-99 CONFIDENTIAL											

ACTION CODES (See Instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Frankie Hathaway Frankie Hathaway
Signature

Administrative Assistant 6/21/00

Title Date

Phone No. (435)613-9777

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:
River Gas Corporation

3. Address and Telephone Number:
6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well
Footages: 1695' FSL, 2133' FEL
QQ, Sec., T., R., M.: NW/SE SEC. 16, T15S, R10E, SLB & M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Sampinos D 14

9. API Well Number:

43-007-30567

10. Field or Pool, or Wildcat:

Undesignated

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |
| Approximate date work will start _____ | |

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Injection Notice</u> | |
| Date of work completion _____ | |

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that the start up date of Injection Well D14 was on 9/5/2000.

13.

Name & Signature: Frankie Hathaway

Frankie Hathaway

Title: Administrative Assistant

Date: 10/5/2000

(This space for state use only)

From: "Burns, Terry" <tburns@rivergas.com>
To: "Chris Kierst (E-mail)" <ckierst.NROGM@state.ut.us>
Date: 12/4/00 4:20PM
Subject: D-14 cover letter

Hello Chris,

I was going through our D-14 file, and noticed an error I had committed concerning Kayenta and Wingate formation tops on an August memo I had sent you for the injection permit. Please replace the one in you file with this attachment. Please call me if you have any questions. <<dwd14.doc>>

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NO.	
						Patented	
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
						N/A	
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>SWD</u>						7. UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____						N/A	
2. NAME OF OPERATOR						8. FARM OR LEASE NAME	
RIVER GAS CORPORATION						Sampinos	
3. ADDRESS OF OPERATOR						9. WELL NO.	
6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777						D14	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)						10. FIELD AND POOL, OR WILDCAT	
At surface 1695' FSL & 2133' FEL						Undesignated	
At top prod. interval reported below						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
At total depth						NW/SE, Sec 16, T15S, R10E, SLB&M	
14. API NO. 43-007-30567				DATE ISSUED 9/2/99		12. COUNTY Carbon	
						13. STATE Utah	
15. DATE SPUDDED 5/5/00	16. DATE T.D. REACHED 6/24/00	17. DATE COMPL. prod 1/8/00 (Ready to or Plug & Abd.)	18. ELEVATIONS (DF, REB, RT, GR, ETC.) GR 5567'			19. ELEV. CASINGHEAD N/A	
20. TOTAL DEPTH, MD & TVD 5474'	21. PLUG BACK T.D., MD & TVD 5466'	22. IF MULTIPLE COMPL., HOW MANY N/A	23. INTERVALS DRILLED BY	ROTARY TOOLS to TD	CABLE TOOLS N/A		
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD OR TVD)						25. WAS DIRECTIONAL SURVEY MADE	
Navajo Sandstone - Top 4558'-4878', Kayenta 4883'-4996' & Wingate Sandstone 5026'-5281'						N/A	
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>DL/LL/CA-6-30-00 CA/LL/CA-6-30-00</u>						27. WAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Submit analysis) (See reverse side)	
28. <u>DL/LL/CA-6-30-00 PE/APR-6-30-00</u> CASING RECORD (Report all strings set in well) <u>CA/LL/CA-9-5-00 DL/LL/CA-6-30-00</u>							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENT RECORD		AMOUNT PULLED	
20"		60'	24"	5 yards ready mix			
13 3/8"	48#	313'	17 1/2"	400 sks class G, 2% S-1+1/4#/sk D29			
9 5/8"	36#	1542'	12 1/4"	615 sks 50/50 POZ, 8% D-20, 10% D-44, 2% S01			
7"	26#	5466'	8 3/4"	390 sks 10-1 RFC (Thixtropic)			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET
							N/A
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Navajo Sandstone: 4558'-4644', 4656'-4697', 4707'-4747', 4761'-4878'				DEPTH INTERVAL (MD)			
Kayenta Formation: 4883'-4903', 4913'-4942', 4986'-4996'				AMOUNT AND KIND OF MATERIAL USED			
Wingate Formation: 5026'-5110', 5110'-5120', 5147'-5167', 5264'-5281'				RECEIVED			
				DEC 11 2000			
33. PRODUCTION				DIVISION OF OIL, GAS AND MINING			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL---BBL.	GAS---MCF.	WATER---BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL---BBL.	GAS---MCF.	WATER---BBL.	OIL GRAVITY - API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)				TEST WITNESSED BY			
				ORIGINAL			
35. LIST OF ATTACHMENTS							

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Jean Semborski

TITLE Permitting Specialist

DATE 12/5/00

Sampinos D14

37 SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS.DEPTH	TRUE VERT. DEPTH
Ferron			Navajo Sandstone: 4558'-4644', 4656'-4697'	Ferron	817	
			4707'-4747', 4761'-4878'	Tununk	1060	
			Kayenta Formation: 4883'-4903', 4913'-4942', 4986'-4996'	Dakota	1397	
			Wingate Formation: 5026'-5110', 5110'-5120', 5147'-5167', 5264'-5281'	Cedar Mtn.	1441	
				Morrison	2271	
				Summerville	2790	
				Curtis	3188	
				Entrada	3351	
				Carmel	3983	
				Navajo	4560	
				Kayenta	4880	
				Wingate	5028	
				Chinle	5389	

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and
Telephone Number:

6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well
Footages:

QQ, Sec., T., R., M.:

SLB & M

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

9. API Well Number:

10. Field or Pool, or Wildcat:

County: Carbon County

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|---|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> | |
| Approximate date work will start _____ | |

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |
| Date of work completion _____ | |

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that River Gas Corporation is transferring ownership of the attached list of wells to Phillips Petroleum Company 9780 Mt. Pyramid Court, Englewood, CO 80112.

Please direct all correspondence and reports to: Phillips Petroleum Company P.O. Box 3368, Englewood, CO 80155-3368.

Effective 1/1/01.

13.

Name & Signature: Cal Hurtt



Title: Development Manager

Date: 12/19/00

(This space for state use only)

RGC/Phillips Merger

List of Affected BLM Leases and Rights-of-Way

A. Oil & Gas Leases

UTU-47157	UTU-70219	UTU-75016
UTU-49631	UTU-70400	UTU-75019
UTU-50645	UTU-71390	UTU-75021
UTU-51584	UTU-72003	UTU-75022
UTU-53872	UTU-72004	UTU-76332
UTU-57821	UTU-72350	UTU-76334
UTU-60402	UTU-72355	UTU-77351
UTU-60925	UTU-72358	UTU-77353
UTU-61154	UTU-72377	UTU-77354
UTU-61155	UTU-72470	UTU-78408
UTU-61158	UTU-72477	UTU-78409
UTU-61547	UTU-72624	UTU-78410
UTU-61548	UTU-72723	UTU-78411
UTU-62145	UTU-72724	UTU-78412
UTU-62276	UTU-72746	UTU-78413
UTU-65298	UTU-73004	UTU-78782
UTU-65300	UTU-73075	UTU-78783
UTU-65302	UTU-73330	UTU-79150
UTU-65303	UTU-73331	UTU-79151
UTU-67621	UTU-73523	UTU-79152
UTU-67839	UTU-73752	UTU-79153
UTU-67906	UTU-73884	UTU-79154
UTU-68314	UTU-74376	UTU-79155
UTU-69449	UTU-75015	UTU-79159

B. Rights-of-Way

UTU-73226	UTU-77141	UTU-77976
UTU-74319	UTU-77141-01	UTU-77989
UTU-74320	UTU-77151	UTU-77989-01
UTU-76610	UTU-77151-01	
UTU-76629	UTU-77154	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <u>See Attached</u>	API Number
Location of Well Footage : _____ County : _____ QQ, Section, Township, Range: _____ State : UTAH	Field or Unit Name Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 1/1/01

CURRENT OPERATOR

Company: River Gas Corporation Name: Cal Hurtt
Address: 1300 McFarland Blvd. NE, Suite 300 Signature: Cal Hurtt
city Tuscaloosa state AL zip 35406 Title: Development Supervisor
Phone: (205) 759-3282 Date: 12/19/00
Comments: Change in operatorship due to merger of River Gas Corporation into Phillips Petroleum Company effective 12/31/00 at 11:59 p.m.

NEW OPERATOR

Company: Phillips Petroleum Company Name: X Billy Stacy
Address: 9780 Mt. Pyramid Court Signature: Billy Stacy
city Englewood state CO zip 80112 Title: Asset Manager
Phone: (720) 344-4984 Date: 2-6-01
Comments: Please send all reports and correspondence to:
Phillips Petroleum Company
P.O. Box 3368
Englewood, CO 80155-3368

(This space for State use only)

Transfer approved by: [Signature]
Title: Field Services Manager

Approval Date: 2-21-01

Comments:

Disposal Wells to be transferred from RGC to Phillips Petroleum Company

Well #	API #	Location	Section	Township	Range
American Quasar D1	4300730040	999FSL, 1552 FWL	31	14S	10E
Arcadia-Telonis D2	4300730093	465 FSL, 560 FEL	19	14S	09E
Utah D3	4300730290	1600 FSL, 1530 FEL	18	15S	10E
Utah D4	4300730314	600 FNL, 500 FWL	24	14S	09E
Fausett D5	4300730351	467 FNL, 1461 FWL	16	14S	09E
Drew D6	4300730100	1300 FSL, 830 FWL	34	14S	09E
Utah D7	4301530338	1371 FSL, 1530 FEL	2	14S	09E
Utah D8	4300730431	1342 FNL, 350 FWL	12	15S	09E
Utah D9	4300730438	1960 FNL, 1487 FWL	32	14S	09E
RGC D10	4300730520	162 FNL, 1557 FEL	28	15S	09E
USA D11	4301530356	1513 FNL, 2437 FEL	13	16S	09E
Sampinos D14	4300730567	1695 FSL, 2133 FEL	16	15S	10E

LAW OFFICES
PRUITT, GUSHEE & BACHTELL

THOMAS W. BACHTELL
A. JOHN DAVIS, III
JOHN W. ANDERSON
FREDERICK M. MACDONALD
GEORGE S. YOUNG
ANGELA L. FRANKLIN
JOHN S. FLITTON
MICHAEL S. JOHNSON
WILLIAM E. WARD

SUITE 1850 BENEFICIAL LIFE TOWER
SALT LAKE CITY, UTAH 84111-1495
(801) 531-8446
TELECOPIER (801) 531-8468
E-MAIL: mail@pgblaw.com

SENIOR COUNSEL:
ROBERT G. PRUITT, JR.
OLIVER W. GUSHEE, JR.

OF COUNSEL:
ROBERT G. PRUITT, III
BRENT A. BOHMAN

January 29, 2001

HAND DELIVERED

Mr. Jim Thompson
Utah Division of Oil, Gas & Mining
1594 W. North Temple
Salt Lake City, UT 84116

Re: River Gas/Phillips Merger

Dear Mr. Thompson:

As you may know, River Gas Corporation ("RGC") merged into Phillips Petroleum Company ("Phillips") effective December 31, 2000 at 11:59 p.m. I have enclosed a Certificate of Articles of Merger issued by the Utah Department of Commerce and, although duplicative, a sundry notice formally evidencing the merger for your records, and a list of all wells, including injection wells, formerly operated by RGC.

Please change the Division's records to reflect the change in operator of these wells from RGC to Phillips. All operational questions should be directed to Phillips at the following address:

Phillips Petroleum Company
Attn: Billy Stacy, Operations Manager
P.O. Box 3368
Englewood, CO 80155-3368
Telephone No.: (720) 344-4984

Phillips currently has a bond on file with the Division (a copy of which is enclosed for your reference), but I understand an \$80,000 Letter of Credit is in the process of being substituted.

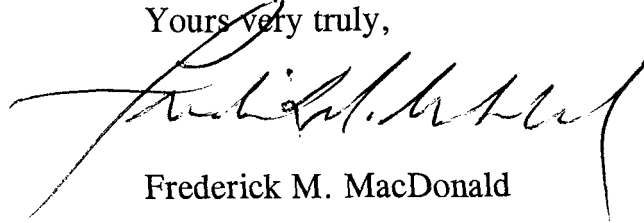
Mr. Jim Thompson

January 29, 2001

Page 2

On behalf of Phillips, I thank you for your cooperation. Should you have any further questions or concerns, please do not hesitate to contact me.

Yours very truly,

A handwritten signature in black ink, appearing to read "Frederick M. MacDonald", with a long, sweeping horizontal line extending to the left.

Frederick M. MacDonald

FMM:cs

2078.16

Enclosures

cc: W. H. Rainbolt

Billy Stacy



Utah Department of Commerce
Division of Corporations & Commercial Code
160 East 300 South, 2nd Floor, Box 146705
Salt Lake City, UT 84114-6705
Phone: (801) 530-4849
Toll Free: (877) 526-3994 Utah Residents
Fax: (801) 530-6438
Web site: <http://www.commerce.state.ut.us>

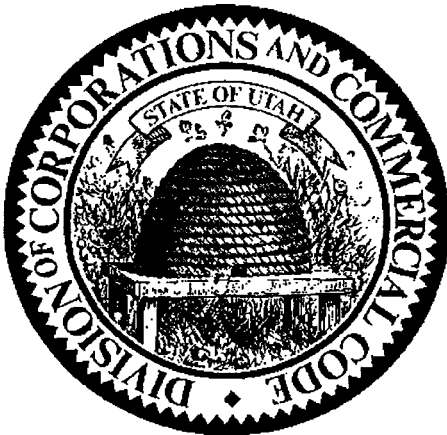
Registration Number: 562960-0143
Business Name: PHILLIPS PETROLEUM COMPANY
Registered Date: JUNE 14, 1946

01/12/01

CERTIFICATE OF ARTICLES OF MERGER

THE UTAH DIVISION OF CORPORATIONS AND COMMERCIAL CODE ("DIVISION") HEREBY CERTIFIES THAT

ARTICLES OF MERGER WERE FILED WITH THIS OFFICE ON DECEMBER 12, 2000 MERGING RIVER GAS CORPORATION, A CORPORATION OF THE STATE OF ALABAMA, INTO PHILLIPS PETROLEUM COMPANY, THE SURVIVING CORPORATION WHICH IS OF THE STATE OF DELAWARE, AS APPEARS OF RECORD IN THE OFFICE OF THE DIVISION.



Ric Campbell
Acting Division Director of
Corporations and Commercial Code

Dept. of Professional Licensing
(801)530-6628

Real Estate
(801)530-6747

Public Utilities
(801)530-6651

Securities
(801)530-6600

Consumer Protection
(801)530-6601

State of Delaware
Office of the Secretary of State

PAGE 1

12/13/2000
Receipt Number: 188532
Amount Paid: \$145.00

ts

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"RIVER GAS CORPORATION", A ALABAMA CORPORATION,
WITH AND INTO "PHILLIPS PETROLEUM COMPANY" UNDER THE NAME OF "PHILLIPS PETROLEUM COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SIXTH DAY OF DECEMBER, A.D. 2000, AT 10 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2000, AT 11:59 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

12-12-00P04:02 RCVD

TAF
FILED
DEC 12 2000

Utah Div. Of Corp. & Comm. Code

State of Utah
Department of Commerce
Division of Corporations and Commercial Code
I hereby certify that the foregoing has been filed and approved on this 12 day of Dec 20 2000 in the office of this Division and hereby issue this Certificate thereof.

Examiner

Date



RIC CAMPBELL
ACTING DIRECTOR



Edward J. Freel, Secretary of State
AUTHENTICATION: 0837738

0064324 8100M

001609453

DATE: 12-07-00

CERTIFICATE OF OWNERSHIP AND MERGER

OF

RIVER GAS CORPORATION

(an Alabama corporation)

into

Phillips Petroleum Company

(a Delaware corporation)

It is hereby certified that:

1. Phillips Petroleum Company [hereinafter sometimes referred to as the "Corporation"] is a business corporation of the State of Delaware.

2. The Corporation is the owner of all of the outstanding shares of each class of stock of River Gas Corporation, which is a business corporation of the State of Alabama.

3. The laws of the jurisdiction of organization of River Gas Corporation permit the merger of a business corporation of that jurisdiction with a business corporation of another jurisdiction.

4. The Corporation hereby merges River Gas Corporation into the Corporation.

5. The following is a copy of the resolutions adopted on November 21, 2000 by the Board of Directors of the Corporation to merge the said River Gas Corporation into the Corporation:

"1. Phillips Petroleum Company, which is a business corporation of the State of Delaware and is the owner of all of the outstanding shares of River Gas Corporation, which is a business corporation of the State of Alabama, hereby merges River Gas Corporation into Phillips Petroleum Company pursuant to the provisions of the Alabama Business Corporation Act and pursuant to the

12-12-00P04:02 RCVD

provisions of Section 253 of the General Corporation Law of Delaware.

"2. The separate existence of River Gas Corporation shall cease at the effective time and date of the merger pursuant to the provisions of the Alabama Business Corporation Act; and Phillips Petroleum Company shall continue its existence as the surviving corporation pursuant to the provisions of Section 253 of the General Corporation Law of Delaware.

"3. The Articles of Incorporation of Phillips Petroleum Company are not amended in any respect by this Plan of Merger.

"4. The issued shares of River Gas Corporation shall not be converted or exchanged in any manner, but each said share which is issued immediately prior to the effective time and date of the merger shall be surrendered and extinguished.

"5. Each share of Phillips Petroleum Company outstanding immediately prior to the effective time and date of the merger is to be an identical outstanding share of Phillips Petroleum Company at the effective time and date of the merger.

"6. No shares of Phillips Petroleum Company and no shares, securities, or obligations convertible into such shares are to be issued or delivered under this Plan of Merger.

"7. The Board of Directors and the proper officers of Phillips Petroleum Company are hereby authorized, empowered, and directed to do any and all acts and things, and to make, execute, deliver, file, and/or record any and all instruments, papers, and documents which shall be or become necessary, proper, or convenient to carry out or put into effect any of the provisions of this Plan of Merger or of the merger herein provided for. "

" This Company approves that the effective time and date of the merger herein provided for in the State of Alabama shall be 11:59 p.m. on December 31, 2000."

"Any Vice President, the Treasurer, any Assistant Treasurer, the Secretary, any Assistant Secretary, and each of them severally, be and hereby is authorized to make, execute,

deliver, file, and/or record any and all instruments, papers, and documents which shall be or become necessary, proper, or convenient to carry out or put into effect any of the provisions of these resolutions and to do or cause to be done all such acts as are necessary to give effect to the purpose and intent of the approval herein set forth."

6. This Certificate of Ownership and Merger shall be effective at 11:59 p.m. on December 31, 2000.

Executed on November 27, 2000

Phillips Petroleum Company

N. A. Loftis
N. A. Loftis, Assistant Secretary



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

In Reply Refer To:
3106
UTU-47157 et al
(UT-932)

JAN 30 2001

NOTICE

Phillips Petroleum Company : Oil and Gas
Attn: W. H. Rainbolt, Rocky Mtn. Region-Land :
Box 1967 :
Houston, TX 77251-1967 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of River Gas Corporation into Phillips Petroleum Company with Phillips Petroleum Company being the surviving entity.

The oil and gas lease files and rights-of-way files identified on the enclosed exhibit have been noted as to the merger. The exhibit is the list supplied by the representative of the companies, and verified by our computerized records. We have not adjudicated the case files to determine if the entity affected by the merger holds an interest in the leases identified, nor have we attempted to identify leases where the entity is the operator on the ground, maintaining no vested record title or operating rights interest. We are notifying the Minerals Management Service and all applicable BLM offices of the merger by a copy of this notice. If additional documentation for a change of operator is required by our Field Offices, you will be contacted by them.

By recognition of the merger the obligor is automatically changed by operation of law from River Gas Corporation to Phillips Petroleum Company on Letter of Credit No. P-207337 (BLM Bond No. UT0829). A rider to BLM Bond No. ES0048 assuming any and all liabilities of BLM Bond No. UT0829 must be submitted for approval to the Eastern States Office, Attn: Bill Forbes, 7450 Boston Boulevard, Springfield, VA 22153. After the rider is approved, the Letter of Credit will be returned to the financial institution that issued it.

ROBERT LOPEZ

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure
Exhibit of Leases

RECEIVED

FEB 02 2001

DIVISION OF
OIL, GAS AND MINING

cc: Moab Field Office
Vernal Field Office
Price Field Office
MMS—Reference Data Branch, MS 3130, P.O. Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC, UT 84114
The Chase Manhattan Bank, Attn: Standby Letter of Credit Dept., 4 Chase Metrotech Center, 8th Floor
Brooklyn, NY 11245
Teresa Thompson (UT-931)
LaVerne Steah (UT-942)
Pruitt, Gushee & Bachtell, Attn: Frederick M. MacDonald, Suite 1850 Beneficial Life Tower,
Salt Lake City, Utah 84111-1495
BLM, Eastern States Office (Attn: Bill Forbes)

OPERATOR CHANGE WORKSHEET**ROUTING**

1. GLH ✓		4-KAS ✓
2. CDW		5- NOV ✓
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X MergerThe operator of the well(s) listed below has changed, effective: **12-31-2000**

FROM: (Old Operator):
RIVER GAS CORPORATION
Address: 6825 S. 5300 W. P. O. BOX 851
PRICE, UT 84501
Phone: 1-(435)-613-9777
Account N1605

TO: (New Operator):
PHILLIPS PETROLEUM COMPANY
Address: P. O. BOX 3368
ENGLEWOOD, CO 80155-3368
Phone: 1-(720)-344-4984
Account N1475

CA No.**Unit: DRUNKARDS WASH****WELL(S)**

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
FAUSETT D5	43-007-30351	12165	16-14S-09E	Fee	SWD	A
ARCADIA-TELONIS 1 (D-2)	43-007-30093	99990	19-14S-09E	Fee	SWD	A
UTAH D-4	43-007-30314	11256	24-14S-09E	State	SWD	A
UTAH M-1	43-007-30199	11256	26-14S-09E	State	SWD	A
UTAH D-9	43-007-30438	12771	32-14S-09E	State	SWD	A
USA D6	43-007-30100	12466	34-14S-09E	Federal	SWD	A
DRUNKARDS WASH 31-1 (D-1)	43-007-30040	11256	31-14S-10E	State	SWD	A
UTAH D8	43-007-30431	11256	12-15S-09E	State	SWD	A
RGC D-10	43-007-30520	12545	28-15S-09E	Fee	SWD	A
UTAH M-2	43-007-30066	2889	34-15S-09E	Federal	TW	A
SAMPINOS D-14	43-007-30567	12729	16-15S-10E	Fee	SWD	A
UTAH D-3	43-007-30290	11256	18-15S-10E	State	SWD	A
UTAH D7	43-015-30338	12404	02-16S-09E	State	SWD	A
D-11	43-015-30356	12572	13-16S-09E	Federal	SWD	A

OPERATOR CHANGES DOCUMENTATION

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 01/29/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 01/29/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/15/2001

4. Is the new operator registered in the State of Utah: YES Business Number: 562960-0143
5. If **NO**, the operator was contacted on: _____
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 01/30/2001
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Pro:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 02/22/2001

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 02/20/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 02/20/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: 5952189

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: P-207328
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 2-22-01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: _____

COMMENTS:



Re: Notice of Address Change, Merger and Name Change
Address Change effective **December 2, 2002**
Merger and Name Change effective **December 31, 2002**

Divisions of Oil, Gas, and Mining
Attn: Mr. John Baza
1594 West North Temple,
Suite 1210, P. O. Box 145801
Salt Lake City, UT 84114-5801

Gentlemen:

1. Effective December 2, 2002, Phillips Petroleum Company will close its Englewood, Colorado Rocky Mountain Region office. After that time, all correspondence, notices and invoice for Land related matters should be directed to the address(es) noted below. Note that until December 31, 2002, all properties in which Phillips held an interest will continue to be operated by Phillips Petroleum Company, a wholly-owned subsidiary of ConocoPhillips.

2. On December 31, 2002, Phillips Petroleum Company and Conoco Inc. will merge, and the surviving corporation will be renamed "ConocoPhillips Company".

In accordance with the notice provisions of the Operating Agreements and other agreements, if any, between our companies, please adjust your company/organization records, effective for address purposes as of December 2, 2002, and for company name purposes, as of January 1, 2003, to reflect the following information for addressing and delivery of notices, invoicing and payment, and communications with ConocoPhillips Company. This will also apply to Lease Sale notices and other lease-related correspondence and notifications.

U.S. Mail Address:

ConocoPhillips Company
P.O. Box 2197
Houston, Texas 77252
Attn: Chief Landman,
San Juan/Rockies

Physical Address & Overnight Delivery:

ConocoPhillips Company
550 Westlake Park Blvd.
Three Westlake Park
3WL, Room WL 9000
Houston, Texas 77079
Attn: Chief Landman,
San Juan/Rockies

All ballots and official notices/responses sent by facsimile transmission should be sent to the following contact:

Attn: Chief Landman,
San Juan/Rockies

Fax No.: 832-486-2688 or
832-486-2687

Please contact the undersigned immediately if you have any questions. This notice does not apply to royalty inquiries, joint interest billings, or revenue remittances. Please continue to use the same addresses you are currently using for these matters

Sincerely,

RECEIVED

DEC 02 2002

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

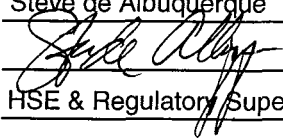
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List	API Number See List
Location of Well Footage : See Attached List County : QQ, Section, Township, Range: State : UTAH	Field or Unit Name Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 1/1/2003

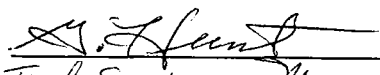
CURRENT OPERATOR

Company: Phillips Petroleum Company
Address: 980 Plaza Office
city Bartlesville state OK zip 74004
Phone: (918) 661-4415
Name: Steve de Albuquerque
Signature: 
Title: HSE & Regulatory Supervisor
Date: 12/30/2002
Comments: Conoco Inc. and Phillips Petroleum Company merged to form ConocoPhillips Company. Please see attached list of wells effected by name change.

NEW OPERATOR

Company: ConocoPhillips Company
Address: P. O. Box 2197, WL3 4066
city Houston state TX zip 77252
Phone: (832) 486-2329
Name: Yolanda Perez
Signature: 
Title: Sr. Regulatory Analyst
Date: 12/30/2002
Comments: Conoco Inc. and Phillips Petroleum Company merged to form ConocoPhillips Company. Please see attached list of wells effected by name change.

(This space for State use only)

Transfer approved by: 
Title: Tech. Services Manager

Approval Date: 2-3-03

Comments: D5, D2 + D3 are due for MIT.

RECEIVED

JAN 08 2003

DIV. OF OIL, GAS & MINING

UIC Well List

SWD WELLS							
api	well_name	section	township	range	well_type	well_status	lease_type
4300730093	ARCADIA-TELONIS 1 (D-2)	19	140S	090E	WD	A	FEE
4301530356	D-11	13	160S	090E	WD	A	FEDERAL
4300730040	DRUNKARDS WASH 31-1 (D-1)	31	140S	100E	WD	A	STATE
4300730351	FAUSETT D5	16	140S	090E	WD	A	FEE
4301530531	PPCO D13	30	160S	090E	WD	DRL	FEE
4300730520	RGC D-10	28	150S	090E	WD	A	FEE
4300730567	SAMPINOS D-14	16	150S	100E	WD	A	FEE
4300730100	USA D6	34	140S	090E	WD	A	FEDERAL
4300730819	UTAH D15	34	130S	090E	WD	APD	STATE
4300730290	UTAH D-3	18	150S	100E	WD	A	STATE
4300730314	UTAH D-4	24	140S	090E	WD	A	STATE
4301530338	UTAH D7	02	160S	090E	WD	A	STATE
4300730431	UTAH D8	12	150S	090E	WD	A	STATE
4300730438	UTAH D-9	32	140S	090E	WD	A	STATE
4300730199	UTAH M-1	26	140S	090E	TW	A	STATE
4300730066	UTAH M-2	34	150S	090E	TW	A	FEDERAL

RECEIVED

JAN 0 8 2003

DIV. OF OIL, GAS & MINING

List of Produced Water Ponds/Pits

	Permit/ License No.	State/Federal		Immediate Name Change Required		Other Immediate Actions Required*		Agency	Agency Contact Name	Agency Contact Number
		S	F	Y	N	Y	N			
1	EVAPORATION POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
2	D-1 POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
3	D-2 (C-2) POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
4	D-3 POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
* Describe: OPERATIONAL PERMITS FOR PRODUCED WATER PONDS										

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DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>All</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 980 Plaza Office CITY Bartlesville STATE OK ZIP 74004		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (918) 661-4415		8. WELL NAME and NUMBER: See Attached List
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List		9. API NUMBER: See List
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

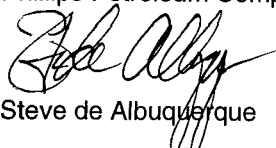
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

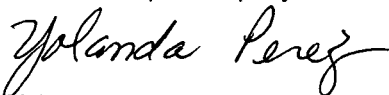
Conoco Inc. was merged into Phillips Petroleum Company, the surviving corporation, on December 31, 2002. In connection with this merger and effective on the same date, the name of the surviving corporation was changed to "ConocoPhillips Company". We are requesting that a new Operator Number be assigned to ConocoPhillips Company.

Please send production reporting forms to Herb Henderson at ConocoPhillips Company, 315 S. Johnstone, 980 Plaza Office, Bartlesville, OK 74004. Herb's phone number is 918-661-4415.

Current Operator
Phillips Petroleum Company


Steve de Albuquerque

New Operator
ConocoPhillips Company


Yolanda Perez

RECEIVED

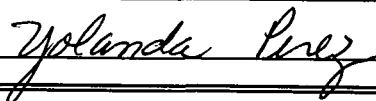
JAN 08 2003

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Yolanda Perez

TITLE Sr. Regulatory Analyst

SIGNATURE



DATE

12/30/2002

(This space for State use only)



SECRETARY'S CERTIFICATE

I, the undersigned, Jennifer M. Garcia, Assistant Secretary of ConocoPhillips Company, formerly Phillips Petroleum Company, organized and existing under and by virtue of the laws of the State of Delaware (the "Corporation"), hereby certify that:

1. As Assistant Secretary I am authorized to execute this certificate on behalf of the Corporation.
2. The attached photocopy of the Certificate of Amendment to the Restated Certificate of Incorporation of Phillips Petroleum Company (to be renamed ConocoPhillips Company) is a true and correct copy as filed in the office of the Secretary of State of Delaware on the 12th day of December 2002, with an effective date of January 1, 2003 and such Certificate of Amendment has not been modified, amended, rescinded or revoked and is in full force and effect as of the date hereof.
3. The attached photocopy of the Certificate of Merger of Conoco Inc. with and into ConocoPhillips Company is a true and correct copy as filed in the office of the Secretary of State of Delaware on the 12th day of December 2002, with an effective date of December 31, 2002 and such Certificate of Merger has not been modified, amended, rescinded or revoked and is in full force and effect as of the date hereof.

IN WITNESS WHEREOF, I have hereunto set my hand as Assistant Secretary and affixed the corporate seal of the Corporation this 7th day of January 2003.

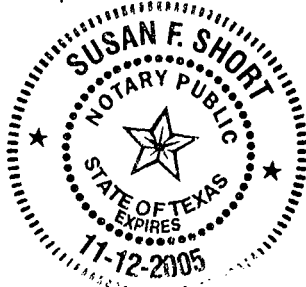

Assistant Secretary
ConocoPhillips Company

STATE OF TEXAS

§
§
§

COUNTY OF HARRIS

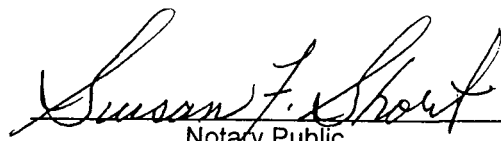
This instrument was acknowledged before me on January 7, 2003, by Jennifer M. Garcia, Assistant Secretary of ConocoPhillips Company, a Delaware corporation, on behalf of said Corporation.



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JAN 08 2003

DIV. OF OIL, GAS & MINING


Notary Public

Delaware

PAGE 1

The First State

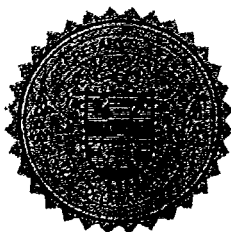
I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "PHILLIPS PETROLEUM COMPANY", CHANGING ITS NAME FROM "PHILLIPS PETROLEUM COMPANY" TO "CONOCOPHILLIPS COMPANY", FILED IN THIS OFFICE ON THE TWELFTH DAY OF DECEMBER, A.D. 2002, AT 1:41 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11 O'CLOCK P.M.

RECEIVED

JAN 08 2003

DIV. OF OIL, GAS & MINING



0064324 8100

030002793

Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2183360

DATE: 01-02-03

FROM RL&F#1

(THU) 12/12/02 13:32/ST. 13:34
STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 01:41 PM 12/12/2002
020763238 - 0064324

CERTIFICATE OF AMENDMENT

to the

RESTATED CERTIFICATE OF INCORPORATION

of

PHILLIPS PETROLEUM COMPANY (to be renamed ConocoPhillips Company)

Phillips Petroleum Company ("Phillips"), a corporation organized and existing under the General Corporation Law of the State of Delaware (the "DGCL"), hereby certifies that:

1. The amendments to Phillips' Restated Certificate of Incorporation set forth below were duly adopted in accordance with the provisions of Section 242 of the DGCL and have been consented to in writing by the sole stockholder of Phillips in accordance with Section 228 of the DGCL.

2. Phillips' Restated Certificate of Incorporation is hereby amended by deleting Article I thereof and replacing in lieu thereof a new Article I reading in its entirety as follows:

"The name of the corporation (which is hereinafter referred to as the "Corporation") is ConocoPhillips Company."

3. Phillips' Restated Certificate of Incorporation is hereby amended by deleting Section 1 of Article IV thereof and replacing in lieu thereof a new Section 1 reading in its entirety as follows:

"Section 1. The Corporation shall be authorized to issue 2,100 shares of capital stock, of which 2,100 shares shall be shares of Common Stock, \$.01 par value ("Common Stock")."

4. Pursuant to Section 103(d) of the DGCL, this amendment will become effective at 11:00 p.m., Eastern time, on December 31, 2002.

HOU03:884504.1

RECEIVED

JAN 08 2003

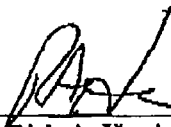
DIV. OF OIL, GAS & MINING

FROM RL&F#1

(THU) 12. 12. 02 13:32/ST. 13:31/NO. 4864756279 P 6

IN WITNESS WHEREOF, Phillips has caused this certificate to be executed this
12th day of December, 2002.

PHILLIPS PETROLEUM COMPANY

By: 
Name: Rick A. Harrington
Title: Senior Vice President, Legal,
and General Counsel

HOU03:884504.1

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JAN 08 2003
DIV. OF OIL, GAS & MINING

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"CONOCO INC.", A DELAWARE CORPORATION,

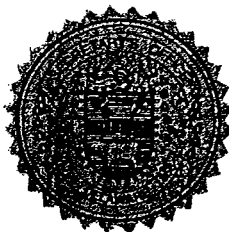
WITH AND INTO "CONOCOPHILLIPS COMPANY" UNDER THE NAME OF "CONOCOPHILLIPS COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWELFTH DAY OF DECEMBER, A.D. 2002, AT 1:44 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11:59 O'CLOCK P.M.

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JAN 08 2003

DIV. OF OIL, GAS & MINING



0064324 8100M

030002793

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2183370

DATE: 01-02-03

CERTIFICATE OF MERGER

of

Conoco Inc.
(a Delaware corporation)

with and into

ConocoPhillips Company
(a Delaware corporation)

Phillips Petroleum Company, a Delaware corporation to be renamed ConocoPhillips Company prior to the effective time of this certificate of merger (the "Surviving Corporation"), in compliance with the requirements of the General Corporation Law of the State of Delaware (the "DGCL") and desiring to effect a merger of Conoco Inc., a Delaware corporation formerly incorporated under the name Du Pont Holdings, Inc. (the "Merging Corporation" and together with the Surviving Corporation, the "Constituent Corporations"), with and into the Surviving Corporation, and acting by its duly authorized officer, DOES HEREBY CERTIFY that:

First: As of the date hereof, the name and state of incorporation of each of the Constituent Corporations of the merger are as follows:

<u>NAME</u>	<u>STATE OF INCORPORATION</u>
PHILLIPS PETROLEUM COMPANY	Delaware
CONOCO INC.	Delaware

Second: An agreement and plan of merger has been approved, adopted, certified, executed and acknowledged by each of the Constituent Corporations in accordance with the requirements of Section 251 of the DGCL;

Third: The name of the Surviving Corporation will be ConocoPhillips Company;

Fourth: The Certificate of Incorporation of ConocoPhillips Company immediately prior to the merger shall be the Certificate of Incorporation of the Surviving Corporation until such time as it may be amended in accordance with applicable law and the provisions thereof;

Fifth: The executed agreement and plan of merger is on file at an office of the Surviving Corporation, the address of which is 600 North Dairy Ashford, Houston, Texas 77079;

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JAN 08 2003

DIV. OF OIL, GAS & MINING

Sixth: A copy of the agreement and plan of merger will be furnished by the Surviving Corporation, on request and without cost, to any stockholder of any Constituent Corporation; and

Seventh: Pursuant to Section 103(d) of the DGCL, this certificate of merger will become effective at 11:59 p.m., Eastern time, on December 31, 2002.

Dated: December 12, 2002

PHILLIPS PETROLEUM COMPANY
(a Delaware corporation)

By: 

Name: Rick A. Harrington

Title: Senior Vice President, Legal,
and General Counsel

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DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF COMMERCE
REGISTRATION

CONOCOPHILLIPS COMPANY

EFFECTIVE
06/14/1946

EXPIRATION
*RENEWAL

REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

Corporation - Foreign - Profit
562960-0143

UNITED STATES CORP CO
CONOCOPHILLIPS COMPANY
GATEWAY TOWER EAST STE 900
10 EAST SOUTH TEMPLE
SLC UT 84133

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JAN 08 2003

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF COMMERCE
DIVISION OF CORPORATIONS & COMMERCIAL CODE
REGISTRATION

EFFECTIVE DATE: 06/14/1946
EXPIRATION DATE: *RENEWAL
ISSUED TO: CONOCOPHILLIPS COMPANY



REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

562960-0143 Corporation - Foreign - Profit

*RENEWAL

You will need to renew your registration each anniversary date of the effective date.
Exceptions: DBAs and Business Trusts renew every three (3) years from the effective date.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Eastern States Office
7450 Boston Boulevard
Springfield, Virginia 22153

IN REPLY REFER TO
3106.8(932.34)WF

January 16, 2003

NOTICE

ConocoPhillips Company	:	Oil & Gas Leases
P.O. Box 7500	:	
Bartlesville, Oklahoma 74005	:	

Merger/Name Change Recognized

Acceptable evidence was received in this office on January 14, 2003, concerning the change of name of Phillips Petroleum Company to **ConocoPhillips Company** and the merger of **Conoco Incorporated** into **ConocoPhillips Company** on Federal oil and gas leases, with **ConocoPhillips Company** being the surviving entity.

The Secretary of the State of Delaware certified the effective date of this merger effective December 31, 2002.

The oil and gas lease files identified on the enclosed exhibit have been noted to the merger. The exhibit was compiled from a list of leases obtained from your list of leases. Eastern States has not abstracted the lease files to determine if the entities affected by this merger hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested record title or operating rights interest. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of this merger and name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this Notice.

By Operation of law the name of the principal on Nationwide Oil and Gas Bond held by Conoco Incorporated (ES0085) has been changed to ConocoPhillips Company.

If you have any questions, please contact Bill Forbes at 703-440-1536.

S/ Wilbert B. Forbes

Wilbert B. Forbes
Land Law Examiner
Branch of Use Authorization
Division of Resources Planning, Use
and Protection

bc: JFO, BLM State Offices, MMS, ES RF, 930 RF, ES-932;
Bforbes:wbf:01/16/03:440-1536/ConocoPhillips Co

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH ☒

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

X MergerThe operator of the well(s) listed below has changed, effective: **12-31-02****FROM:** (Old Operator):

PHILLIPS PETROLEUM COMPANY

Address: 980 Plaza Office

Bartlesville, OK 74004

Phone: 1-(918)-661-4415

Account No. N1475

TO: (New Operator):

CONOCOPHILLIPS COMPANY

Address: P O BOX 2197, WL3 4066

HOUSTON, TX 77252

Phone: 1-(832)-486-2329

Account No. N2335

CA No.

Unit:

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
UTAH D-15	34-13S-09E	43-007-30819	99999	STATE	SWD	APD
FAUSETT D-5	16-14S-09E	43-007-30351	12165	FEE	SWD	A
ARCADIA-TELONIS 1 (D-2)	19-14S-09E	43-007-30093	99990	FEE	SWD	A
UTAH D-4	24-14S-09E	43-007-30314	11256	STATE	SWD	A
UTAH M-1	26-14S-09E	43-007-30199	11256	STATE	TW	A
UTAH D-9	32-14S-09E	43-007-30438	12771	STATE	SWD	A
USA D-6	34-14S-09E	43-007-30100	12466	FEDERAL	SWD	A
UTAH D-8	12-15S-09E	43-007-30431	11256	STATE	SWD	A
RGC D-10	28-15S-09E	43-007-30520	12545	FEE	SWD	A
UTAH M-2	34-15S-09E	43-007-30066	2889	FEDERAL	TW	A
DRUNKARDS WASH 31-1 (D-1)	31-14S-10E	43-007-30040	11256	STATE	SWD	A
SAMPINOS D-14	16-15S-10E	43-007-30567	12729	FEE	SWD	A
UTAH D-3	18-15S-10E	43-007-30290	11256	STATE	SWD	A
UTAH D-7	02-16S-09E	43-015-30338	12404	STATE	SWD	A
D-11	13-16S-09E	43-015-30356	12572	FEDERAL	SWD	A
PPCO D13	30-16S-09E	43-015-30531	99999	FEE	SWD	DRL

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 01/08/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 01/08/2003
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/03/2003
- Is the new operator registered in the State of Utah: YES Business Number: 562960-0143
- If **NO**, the operator was contacted on: _____

6. (R649-9-2) Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 01/14/2003

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 01/14/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: 01/14/2003

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 02/04/2003

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 02/03/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 02/03/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 8140-60-24

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 8015-16-69

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 6196922
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Disposal Well</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
2. NAME OF OPERATOR: ConocoPhillips Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: P.O. Box 851 CITY Price STATE UT ZIP 84501		7. UNIT or CA AGREEMENT NAME: Drunkards Wash UTU-67921X
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2133' FEL, 1695' FSL		8. WELL NAME and NUMBER: Sampinos D-14
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 16 15S 10E S		9. API NUMBER: 4300730567
COUNTY: Carbon		10. FIELD AND POOL, OR WILDCAT: Drunkards Wash
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Add tubing and packer</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ConocoPhillips Company would like to request approval to install tubing and packer in the Sampinos D-14 salt water disposal well. This well was first put into operation in September 2000. A packer and tubing will be installed to improve the long term integrity of this well for disposal capabilities. The procedure for installation is presented on the attached page.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 07-26-05
By: [Signature]

COPIES SENT TO OPERATOR
Date: 7-28-05
Initials: CH

NAME (PLEASE PRINT) Jean Semborski TITLE Construction Supervisor
SIGNATURE [Signature] DATE 7/20/2005

(This space for State use only)

RECEIVED
JUL 21 2005
DIV. OF OIL, GAS & MINING

Drunkard's Wash Workover Procedure

'Our work is never so urgent or important that we cannot take the time to do it safely.'

SAMPINOS D-14 Disposal Well

PROCEDURE:

Ensure that well is shut in, energy isolated, locked and tagged out; Cathodic protection disconnected. Record SI tbg; SI csg: Braidenhead : pressures. NOTE : This well will have positive pressure.

Notify the State of Utah representatives a minimum of 24 hours prior to moving in to inform them of ConocoPhillips plans and timing.

1. Prior to rigging up, close 7 1/16" full opening valve on wellhead, record SI tubing, SI casing, and Braden head pressures.
2. Hold pre-job Safety Meeting. Lock out tag out energy sources, bleed pressure from flowline to wellhead, remove flow line from wellhead, cover end of line so debris will not get into it.
3. MI & RU WO rig.
4. ND 5M# tree above valve, RU wireline BOP's on top of 7-1/16" full opening valve.
5. PU & RU wireline lubricator, wireline to run 6.15" drift gauge ring to tag fill or PBTD @ 5417', btm perf @ 5167'.
6. POOH gauge ring, if no scale or fill covering perforation pick up 7" Arrow Pak packer with X and XN seating nipples.
7. Wireline RIH packer with seating nipples and pump out plug in place, set at packer 4,400' (top perforation @ 4558').
8. RD wireline, observe well to see that packer is holding.
9. Nipple down 7-1/16" full opening valve, NU tubing spool and rig BOP's (4.5" pipe rams), perform standard BOP tests.
10. Pick up and make up Weatherford Seal Assembly on bottom of 4.5" tubing.
11. TIH 4.5" tubing and seal assembly to 4,380', sting seal assembly into packer, space out to land hanger at Weatherford specified landing weight and land hanger, pick up tubing and hanger to pull seal assembly out of packer, pump 88 bbls. packer fluid down back side, land hanger, record landing weight.
12. Perform packer test by pressure testing back side.
13. RD BOP's, RU tree, pump out plug, RD and MO rig.
14. Rig up surface line to tree to inject down tubing.
15. Turn well over to production. Notify Operations Supervisors Steve Lessar or Jeff Sandoval.

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>Sampinos D-14</u>	API Number: <u>43-007-30567</u>
Qtr/Qtr: <u>NWSE</u> Section: <u>16</u>	Township: <u>15 S</u> Range: <u>10 E</u>
Company Name: _____	
Lease: State _____ Fee <u>X</u>	Federal _____ Indian _____
Inspector: <u>Mark L. Jones</u>	Date: <u>9/23/05</u>

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psiCasing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>960 #</u>	<u>0 #</u>
5	_____	_____
10	_____	_____
15	_____	_____
20	_____	_____
25	_____	_____
30	<u>960 #</u>	<u>0 #</u>

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psiCasing/Tubing Annulus Pressure: 0 psi

COMMENTS: Top of packer set @ 4408'
Retrievable Plug on bottom of tubing during test
Top of tubing open to atmosphere

JJ Day & Jim Weaver
 Operator Representative

FOR RECORD ONLY
 Accepted by the
 Utah Division of
 Oil, Gas and Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil ☒ Gas

WD

2. Name of Operator

ConocoPhillips

3. Address and Telephone No.

6825 South 5300 West, P.O. Box 851, Price, Utah 84501 (435) 613-9777

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2133' FEL, 1695' FSL

NW/SE, SEC. 161, T15S, R10E, SLB&M

5. Lease Designation and Serial No.

Patented

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Drunkards Wash UTU-67921X

8. Well Name and No.

Sampinos D-14

9. API Well No.

43-007-30567

10. Field and Pool, or Exploratory Area

Drunkards Wash

11. County or Parish, State

Carbon County, Utah

12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Online Notice
☐ Change of Name
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Plug & Packer

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-22-05: SET WEATHERFORD PACKER AT 4408'.

9-23-05: INSTALLED 4400' 4 1/2" 11.6# N-80 TUBING AND SEAL ASSEMBLY AND LATCHED INTO PACKER AT 4408. PERFORMED MIT, PRESSURED TESTED TUBING/CASING TO 1000# FOR MINUTES. MIT WITNESSED BY MARK JONES WITH DOGM.

RECEIVED

NOV 01 2005

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Lynnette Allred Title Sr. Operations Assistant Date October 25, 2005

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER Disposal Well

2. NAME OF OPERATOR:
ConocoPhillips Company

3. ADDRESS OF OPERATOR:
P.O. Box 51810 CITY Midland STATE Tx ZIP 79710

PHONE NUMBER:
(432) 688-6943

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1695 FSL & 2133 FEL

COUNTY: Carbon

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 16 15S 10E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
N/A

7. UNIT or CA AGREEMENT NAME:
N/A

8. WELL NAME and NUMBER: Sampinds
D-14

9. API NUMBER:
4300730567

10. FIELD AND POOL, OR WILDCAT:
Undesignated

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>7/1/2008</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Add Formation</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ConocoPhillips Company respectfully request to add the Dakota formation to the disposal authorization. We are currently in the process of recompleting the D8 to a Dakota well. The Dakota formation is a unitized formation of the Drunkards Wash Unit. Please find attached a water analysis of the Dakota formation for review.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 07-22-08
By: [Signature]

RECEIVED

JUN 27 2008

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Donna Williams

TITLE Sr. Regulatory Specialist

SIGNATURE [Signature]

DATE 6/26/2008

(This space for State use only)

COPY SENT TO OPERATOR

Date: 7-23-2008

Initials: KS



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : CO2 at default value, 1ST RUN

CATIONS

Calcium : 182 mg/l
Magnesium : 42 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 4.0 mg/l
Manganese : mg/l
Sodium : 14997 mg/l

ANIONS

Chloride : 22,540 mg/l
Carbonate : 0 mg/l
Bicarbonate : 1,022 mg/l
Sulfate : 590 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.030 grams/ml
T D S : 39,377 ppm
Ionic Strength : 0.66

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-1.18	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-1.02	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-0.81	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-0.59	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-0.37	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-0.14	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	0.10	Calcite PTB @ 200 F :	22.4
Gypsum (CaSO4) SI :	-1.75	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : CO2 at default value, 3RD RUN

CATIONS

Calcium : 266 mg/l
Magnesium : 13 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 2.0 mg/l
Manganese : mg/l
Sodium : 17595 mg/l

ANIONS

Chloride : 26,760 mg/l
Carbonate : 0 mg/l
Bicarbonate : 749 mg/l
Sulfate : 603 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
T D S : 45,988 ppm
Ionic Strength : 0.78

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-1.36	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-1.20	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-0.99	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-0.78	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-0.55	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-0.32	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	-0.08	Calcite PTB @ 200 F :	N/A
Gypsum (CaSO4) SI :	-1.62	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

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Champion Technologies, Inc.
Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Address :

City : Price

State : UT

Postal Code :

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Comments : CO2 at default value. 8TH RUN

Analyst : Karen Hawkins Allen

CATIONS

Calcium : 200 mg/l
Magnesium : 61 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 1.0 mg/l
Manganese : mg/l
Sodium : 17672 mg/l

ANIONS

Chloride : 27,100 mg/l
Carbonate : 0 mg/l
Bicarbonate : 368 mg/l
Sulfate : 633 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
TDS : 46,035 ppm
Ionic Strength : 0.78

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-2.10	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-1.95	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-1.73	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-1.52	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-1.29	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-1.06	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	-0.82	Calcite PTB @ 200 F :	N/A
Gypsum (CaSO4) SI :	-1.73	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.
Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : CO2 at default value. 13TH RUN

CATIONS

Calcium : 255 mg/l
Magnesium : 28 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 2.0 mg/l
Manganese : mg/l
Sodium : 17295 mg/l

ANIONS

Chloride : 26,500 mg/l
Carbonate : 0 mg/l
Bicarbonate : 381 mg/l
Sulfate : 650 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
TDS : 45,111 ppm
Ionic Strength : 0.77

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-1.96	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-1.80	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-1.59	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-1.37	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-1.15	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-0.92	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	-0.68	Calcite PTB @ 200 F :	N/A
Gypsum (CaSO4) SI :	-1.61	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Attention :

cc1 :

cc2 :

Salesman : Scott Harbison

Comments : CO2 at default value. 14TH RUN

Analyst : Karen Hawkins Allen

CATIONS

Calcium : 250 mg/l
Magnesium : 91 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 1.0 mg/l
Manganese : mg/l
Sodium : 17888 mg/l

ANIONS

Chloride : 27,680 mg/l
Carbonate : 0 mg/l
Bicarbonate : 320 mg/l
Sulfate : 575 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
T D S : 46,805 ppm
Ionic Strength : 0.80

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-2.14	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-1.98	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-1.77	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-1.55	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-1.33	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-1.10	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	-0.86	Calcite PTB @ 200 F :	N/A
Gypsum (CaSO4) SI :	-1.68	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : CO2 at default value. 15TH RUN

CATIONS

Calcium : 206 mg/l
Magnesium : 48 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 1.0 mg/l
Manganese : mg/l
Sodium : 18095 mg/l

ANIONS

Chloride : 27,820 mg/l
Carbonate : 0 mg/l
Bicarbonate : 305 mg/l
Sulfate : 555 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
TDS : 47,030 ppm
Ionic Strength : 0.80

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-2.26	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-2.11	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-1.90	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-1.68	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-1.45	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-1.22	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	-0.98	Calcite PTB @ 200 F :	N/A
Gypsum (CaSO4) SI :	-1.78	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : CO2 at default value, 16TH RUN.

CATIONS

Calcium : 173 mg/l
Magnesium : 25 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 1.0 mg/l
Manganese : mg/l
Sodium : 17996 mg/l

ANIONS

Chloride : 27,540 mg/l
Carbonate : 0 mg/l
Bicarbonate : 283 mg/l
Sulfate : 575 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
TDS : 46,593 ppm
Ionic Strength : 0.79

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-2.40	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-2.24	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-2.03	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	-1.81	Calcite PTB @ 140 F :	N/A
Calcite (CaCO3) SI @ 160 F :	-1.59	Calcite PTB @ 160 F :	N/A
Calcite (CaCO3) SI @ 180 F :	-1.36	Calcite PTB @ 180 F :	N/A
Calcite (CaCO3) SI @ 200 F :	-1.12	Calcite PTB @ 200 F :	N/A
Gypsum (CaSO4) SI :	-1.83	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Confidential

Champion Technologies, Inc.

Vernal District Technical Services



Water Analysis Report

Customer : ConocoPhillips

Date Sampled : 18-Apr-08

Date Reported : 21-Apr-08

Date Received : 21-Apr-08

Address :

City : Price

State : UT

Postal Code :

Attention :

cc1 :

cc2 :

Field : Drunkards Wash Unit

Lease : Drunkards Wash Unit

Location : D-8 SWD

Sample Point : wellhead

Salesman : Scott Harbison

Analyst : Karen Hawkins Allen

Comments : CO2 at default value. 17TH RUN.

CATIONS

Calcium : 178 mg/l
Magnesium : 30 mg/l
Barium : mg/l
Strontium : mg/l
Iron : 1.0 mg/l
Manganese : mg/l
Sodium : 16988 mg/l

ANIONS

Chloride : 25,980 mg/l
Carbonate : 0 mg/l
Bicarbonate : 312 mg/l
Sulfate : 590 mg/l

pH (field) : 7.00
Temperature : 85 degrees F
Specific Gravity : 1.035 grams/ml
TDS : 44,079 ppm
Ionic Strength : 0.75

CO2 in Water : 300 mg/l
CO2 in Gas : 0.03 mole %
H2S in Water : mg/l
Dissolved Oxygen : ppm
Resistivity : ohm/meters

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI : -2.28
Calcite (CaCO3) SI @ 100 F : -2.12
Calcite (CaCO3) SI @ 120 F : -1.91
Calcite (CaCO3) SI @ 140 F : -1.69
Calcite (CaCO3) SI @ 160 F : -1.47
Calcite (CaCO3) SI @ 180 F : -1.24
Calcite (CaCO3) SI @ 200 F : -1.00
Gypsum (CaSO4) SI : -1.79
Barite (BaSO4) SI : N/A
Celestite (SrSO4) SI : N/A

Calcite PTB : N/A
Calcite PTB @ 100 F : N/A
Calcite PTB @ 120 F : N/A
Calcite PTB @ 140 F : N/A
Calcite PTB @ 160 F : N/A
Calcite PTB @ 180 F : N/A
Calcite PTB @ 200 F : N/A
Gypsum PTB : N/A
Barite PTB : N/A
Celestite PTB : N/A

Confidential

Champion Technologies, Inc.
Vernal District Technical Services

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: CONOCOPHILLIPS COMPANY		7. UNIT or CA AGREEMENT NAME: DRUNKARDS WASH
3. ADDRESS OF OPERATOR: P.O. Box 51810, Midland, TX, 79710 1810		8. WELL NAME and NUMBER: SAMPINOS D14
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1695 FSL 2133 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 16 Township: 15.0S Range: 10.0E Meridian: S		9. API NUMBER: 43007305670000
PHONE NUMBER: 432 688-6943 Ext		9. FIELD and POOL or WILDCAT: DRUNKARDS WASH
COUNTY: CARBON		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text" value="MIT"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/22/2011			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			


12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 A successful mechanical integrity test was performed on the above disposal well on February 22, 2011. The test was witnessed by a representative of DOGM.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 03/09/2011

By:

NAME (PLEASE PRINT) Donna Williams	PHONE NUMBER 432 688-6943	TITLE Sr. Regulatory Specialist
SIGNATURE N/A	DATE 3/8/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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PHONE NUMBER: 432 688-6943 Ext		9. FIELD and POOL or WILDCAT: DRUNKARDS WASH
COUNTY: CARBON		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/25/2016	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> APD EXTENSION	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 4/25/2016: MIRU. Pressure tested casing to 1000#. Good test. Chart attached.		
Accepted by the Utah Division of Oil, Gas and Mining		
Date: <u>June 01, 2016</u>		
By: <u></u>		
NAME (PLEASE PRINT) Donna Williams	PHONE NUMBER 432 688-6943	TITLE Sr. Regulatory Specialist
SIGNATURE N/A	DATE 5/26/2016	

